



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - 08/2025 - CEN - 04/2025
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



RRB SECTION CONTROLLER 2025

Section Controller | CEN 04/2025

ENGLISH ANSWER KEY

Official Answer Key with Solutions

All 5 Shifts · 10-12-2025 to 12-02-2026

Questions	100
Marking	+1 correct / -1/3 wrong
Duration	90 minutes
Sections	General Awareness · Maths · Reasoning · General Science

Every paper here is the official RRB response sheet with the correct answer marked.

HOW TO USE THIS BOOK

- 1 Open the INDEX on the next page.
- 2 Click any row to jump straight to that date and shift.
- 3 Correct options are ticked in green, wrong ones crossed in red.
- 4 Use the bookmarks panel of your PDF reader to move between shifts.

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Compiled 12 September 2026

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RRB Section Controller 2025 CBT 1 (English) · 5 shifts

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - 08/२०२५ - CEN - 04/2025
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Center Name	Param It Solution
Test Date	12/02/2026
Test Time	9:00 AM - 11:00 AM
Subject	RRB SECTION CONTROLLER CBT 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

- Options shown in green color with a tick icon are correct.
- Chosen option on the right of the question indicates the option selected by the candidate.

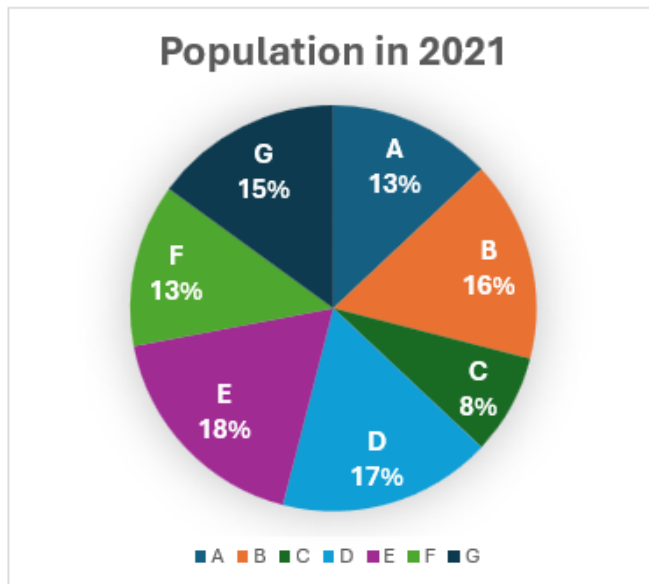
Section : RRB SECTION CONTROLLER CBT 1

Q.1 Three varieties of wheat are mixed in the ratio (weight in kgs) of 4:5:8. When 5 kg of the first variety, 10 kg of the second variety and P kg of the third variety are added to the mixture, the ratio becomes 5:7:9. Find the value of P.

Ans

- ☒ A. 4
☒ B. 5.5
☒ C. 4.5
☒ D. 5

Q.2 Study the pie chart to answer the question that follow. The population proportion of seven towns in 2021 is shown in the pie chart.



If the total population of all the towns is 3,07,500 and 40% of the population of the town G is under poverty line. The number of people under poverty line of town G is:

Ans

- ☒ A. 19,540
☒ B. 18,450
☒ C. 19,450
☒ D. 18,540

Q.3 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $15 \div 2 - 63 \times 7 + 11 = ?$

- Ans** ☒ A. 25
☒ B. 36
☒ C. 28
☒ D. 30

Q.4 A shopkeeper buys an article for ₹2,400 and marks it for sale at a price that gives him 80% profit on his cost price. He, however, gives a 41% discount on the marked price to his customer. Find the actual profit made by the shopkeeper.

- Ans** ☒ A. ₹146.80
☒ B. ₹147.80
☒ C. ₹148.80
☒ D. ₹149.80

Q.5 The circumference of the base of a cylindrical vessel is 300 cm and its height is 88 cm. How many litres of water can it hold?

- Ans** ☒ A. 630
☒ B. 645
☒ C. 679
☒ D. 582

Q.6 A garrison of 1,210 men has provisions for 16 days. How long (in days) will the provisions last if the garrison be increased by 550 men?

- Ans** ☒ A. 9
☒ B. 12
☒ C. 11
☒ D. 10

Q.7 Find the mean deviation from the mean for the following data, given that the mean is 9.55. (Round off your answer to two decimal places.)

Size of items x_i	4	6	8	10	12	14	16
Frequency f_i	2	5	5	3	2	1	4

- Ans** ☒ A. 2.42
☒ B. 2.46
☒ C. 3.32
☒ D. 3.12

Q.8 A cone is cut parallel to its base, forming a frustum. If the radii of the two circular bases of the frustum are 5 cm and 3 cm, and the height of the frustum is 12 cm, find the volume of the original cone. (Take $\pi = \frac{22}{7}$)

- Ans** ☒ A. $685\frac{6}{7} \text{ cm}^3$
☒ B. $785\frac{6}{7} \text{ cm}^3$
☒ C. $785\frac{5}{7} \text{ cm}^3$
☒ D. $685\frac{5}{7} \text{ cm}^3$

Q.9 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

FLR BHN XDJ TZF PVA LRX

- Ans
- ☐ A. XDJ
 - ☐ B. LRX
 - ☐ C. TZF
 - ☒ D. PVA

Q.10 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- ☐ A. QV - SX
 - ☐ B. SX - UZ
 - ☒ C. OI - LK
 - ☐ D. MR - OT

Q.11 A man incurs a loss of 12% by selling an article for ₹264. If he sells it for ₹495, what will be his gain percentage?

- Ans
- ☐ A. 60%
 - ☒ B. 65%
 - ☐ C. 64%
 - ☐ D. 62%

Q.12 In a certain code language, 'DENT' is coded as '6924' and 'PADS' is coded as '1359'. What is the code for 'D' in the given code language?

- Ans
- ☐ A. 6
 - ☐ B. 5
 - ☐ C. 3
 - ☒ D. 9

Q.13 If the perimeter of a square and rectangle are 40 cm each and the difference in their areas is 4 cm², find the difference between the length and breadth of the rectangle (in cm).

- Ans
- ☐ A. 8
 - ☒ B. 4
 - ☐ C. 6
 - ☐ D. 2

Q.14 If $x-1$ is the mean proportion between $x-2$ and $x-8$, then find the value of x .

- Ans
- ☐ A. $\frac{5}{3}$
 - ☒ B. $\frac{15}{8}$
 - ☐ C. $\frac{5}{4}$
 - ☐ D. $\frac{15}{7}$

- Q.15** Study the given table carefully and answer the questions that follow. The given table indicates the production of different types of cars (in thousands) from 1998 to 2003.

Year Types	1998	1999	2000	2001	2002	2003
A	36	34	40	35	43	45
B	20	22	25	23	20	16
C	14	30	16	25	30	35
D	60	40	45	55	60	60
E	40	44	48	50	80	100

In which year is the total production of A and D together equal to the total production of C and E together?

- Ans** ☒ A. 1999
☒ B. 2001
☒ C. 1998
☒ D. 2000

- Q.16** The simplified value of $\frac{66}{18} \times (82 + 41) + 34$ is

- Ans** ☒ A. 485
☒ B. 477
☒ C. 491
☒ D. 480

- Q.17** Find the area of the triangle whose sides are in the ratio of 7:4:8 with a perimeter of 38 cm.

- Ans** ☒ A. 55 cm²
☒ B. 60 cm²
☒ C. $\sqrt{2135}$ cm²
☒ D. $\sqrt{3135}$ cm²

- Q.18** The average of 41 numbers is 36. The average of the first 19 numbers is 57 and the average of the last 23 numbers is 30. If the 19th number from the beginning is excluded, then what is the average of the remaining numbers?

- Ans** ☒ A. 25.25
☒ B. 29.475
☒ C. 33.689
☒ D. 27.1

- Q.19** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$38 \div 5 - 14 + 26 \times 2 = ?$$

- Ans** ☒ A. 191
☒ B. 195
☒ C. 197
☒ D. 203

Q.20 In the following series, only one letter-cluster is incorrect. Select the **INCORRECT** letter-cluster.

YEK UAG QWC MSY IOV EKQ

- Ans
- ☒ A. QWC
 - ☒ B. EKQ
 - ☒ C. MSY
 - ☒ D. IOV

Q.21 All 46 students in a class are standing in a row facing north. Jaya is 15th from the right end, while Sanjay is 26th from the left end. How many people stand between Jaya and Sanjay?

- Ans
- ☒ A. 6
 - ☒ B. 5
 - ☒ C. 7
 - ☒ D. 4

Q.22 The value of $\frac{2}{8} + \frac{4}{8} + \frac{5}{16} + \frac{2}{8} - 4$ is

- Ans
- ☒ A. $-\frac{53}{16}$
 - ☒ B. $-\frac{45}{16}$
 - ☒ C. $-\frac{43}{16}$
 - ☒ D. $-\frac{33}{16}$

Q.23 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: INQ :: FKO : %

- Ans
- ☒ A. # = SRP, % = GFE
 - ☒ B. # = LQU, % = CHK
 - ☒ C. # = TJV, % = HEL
 - ☒ D. # = RTP, % = DEJ

Q.24 At a health club, 44% of the members are women and 56% of the members are men. If the average age of the men is 52 years and the average age of the women is 67 years, what is the average age (in years) of all the members?

- Ans
- ☒ A. 56.5
 - ☒ B. 66.4
 - ☒ C. 58.6
 - ☒ D. 68.4

Q.25 Refer to the given letter, symbol series and answer the question that follows.
 Counting to be done from left to right only.

(Left) # F * G W # C # Y R & @ W Z @ L & L N % # W (Right)

How many such letter are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans
- ☒ A. 5
 - ☒ B. 4
 - ☒ C. 3
 - ☒ D. 2

Q.26 By how much is 30% of 65 greater than 35% of 30?

- Ans
- ☒ A. 4
 - ☒ B. 11
 - ☒ C. 6
 - ☒ D. 9

Q.27 Two dice are thrown simultaneously. The probability that the sum of the numbers on the faces turned up exceeds 7 is:

- Ans
- ☒ A. $\frac{11}{36}$
 - ☒ B. $\frac{13}{36}$
 - ☒ C. $\frac{7}{12}$
 - ☒ D. $\frac{5}{12}$

Q.28 The mode of the following data is 8. Find the value of f.

Class Interv als	freque ncy
0 - 6	13
6 - 12	f
12 - 18	7
18 - 24	10
24 - 30	8

- Ans
- ☒ A. 19
 - ☒ B. 15
 - ☒ C. 21
 - ☒ D. 16

Q.29 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group? (Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans
- ☒ A. EI - HL
 - ☒ B. LO - NL
 - ☒ C. MQ - PT
 - ☒ D. IM - LP

Q.30 The area of the base of a right circular cone is 2464 cm^2 and its height is 45 cm. What is the curved surface area of the cone?
(Use $\pi = 22/7$)

- Ans**
- ☒ A. 3646 cm^2
 - ☒ B. 4664 cm^2
 - ☒ C. 5058 cm^2
 - ☒ D. 4224 cm^2

Q.31 In a cloth store, 10 varieties of sarees are arranged on two parallel racks. Rack 1 is facing towards the South and it has the following variety of sarees: A, B, C, D and E. Rack 2 is facing towards the North and it has the following variety of sarees: F, G, H, I and J. Thus, each saree in Rack 1 is placed in front of a saree in Rack 2 and vice versa. Variety D and B sarees are placed at extreme ends and are opposite Variety I and G sarees on the opposite rack, respectively. Variety C is at the middlemost position and is opposite neither H nor J. Variety A sarees are placed to the immediate right of B, H is not the saree variety opposite to Variety A. Which variety of sarees are opposite H?

- Ans**
- ☒ A. E
 - ☒ B. B
 - ☒ C. D
 - ☒ D. A

Q.32 In a certain code language,
A @ B means 'A is the sister of B'
A # B means 'A is the wife of B'
A $\neq$ B means 'A is the father of B'
A + B means 'A is the brother of B'
Based on the above, how is F related to V if 'F # G $\neq$ S @ T + V'?

- Ans**
- ☒ A. Mother's mother
 - ☒ B. Mother
 - ☒ C. Wife
 - ☒ D. Sister

Q.33 A man buys 12 identical articles for a total of ₹20. If he sells each of them for ₹2.1, then what is his profit percentage?

- Ans**
- ☒ A. 27%
 - ☒ B. 21.63%
 - ☒ C. 20.63%
 - ☒ D. 26%

Q.34 On a 2295 m long circular track, Siddharth finishes one round in 85 seconds and Yash finishes one round in 45 seconds. How many different meeting points are there on the track if they are running in the opposite directions?

- Ans**
- ☒ A. 33
 - ☒ B. 20
 - ☒ C. 26
 - ☒ D. 36

Q.35 Calculate the volume of a cube whose side length is 23 millimetres.

- Ans**
- ☒ A. 12,147 mm^3
 - ☒ B. 12,167 mm^3
 - ☒ C. 12,157 mm^3
 - ☒ D. 12,177 mm^3

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 36

Q.36 Which of the following is the most suitable title for the passage?

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 37

Q.37 Identify the tone of the passage.

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 38

Q.38 What percentage of people are estimated to be super-recognisers?

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 39

Q.39 What does the passage imply about human versus machine recognition?

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 40

Q.40 The phrase "exceptional precision" most nearly means _____.

Q.41 The volume of a cylinder having height 49 cm and radius 17 cm is _____.

$$\text{Use } \pi = \frac{22}{7}$$

- Ans ☒ A. 44492 cm³
☒ B. 44580 cm³
☒ C. 44426 cm³
☒ D. 44506 cm³

Q.42 Find the probability that a randomly chosen number from the first 80 natural numbers is either a perfect square or divisible by 7.

- Ans ☒ A. $\frac{9}{40}$
☒ B. $\frac{9}{37}$
☒ C. $\frac{5}{42}$
☒ D. $\frac{7}{40}$

Q.43 The length (in mm) of the shoes of few students were measured and observations are as under. Find the median length of the shoes (in mm).

Length: 123 124 122 120 121 125
 Number of students: 6 8 10 12 15 9

- Ans ☒ A. 123
☒ B. 124
☒ C. 122
☒ D. 121

Q.44 The fourth proportional of the numbers x, (x+2) and 3x is 33. Find the second proportional; x is a natural number.

- Ans ☒ A. 9
☒ B. 11
☒ C. 27
☒ D. 18

Q.45 The average height of 16 boys out of a class of 50 boys is 160 cm. If the average height of the remaining boys is 168 cm, then the average height of the whole class (in cm) is:

- Ans
- ☐ A. 165
 - ☐ B. 166.44
 - ☐ C. 164
 - ☒ D. 165.44

Q.46 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

FLAP - LAFP - PALF
COIN - OICN - NIOC

- Ans
- ☒ A. HALF - ALHF - FLAH
 - ☐ B. DISC - ISDC - ISCD
 - ☐ C. BASE - ABSE - EASB
 - ☐ D. GOLF - GLOF - FLOG

Q.47 If a data set has a median of 92 and a mean of 84, what is the value of the mode?

- Ans
- ☒ A. 108
 - ☐ B. 98
 - ☐ C. 96
 - ☐ D. 102

Q.48 An arithmetic progression has 32 as its first term and 48 as its last term, with a total of 12 terms. What is the sum of these 12 terms?

- Ans
- ☐ A. 479
 - ☒ B. 480
 - ☐ C. 478
 - ☐ D. 482

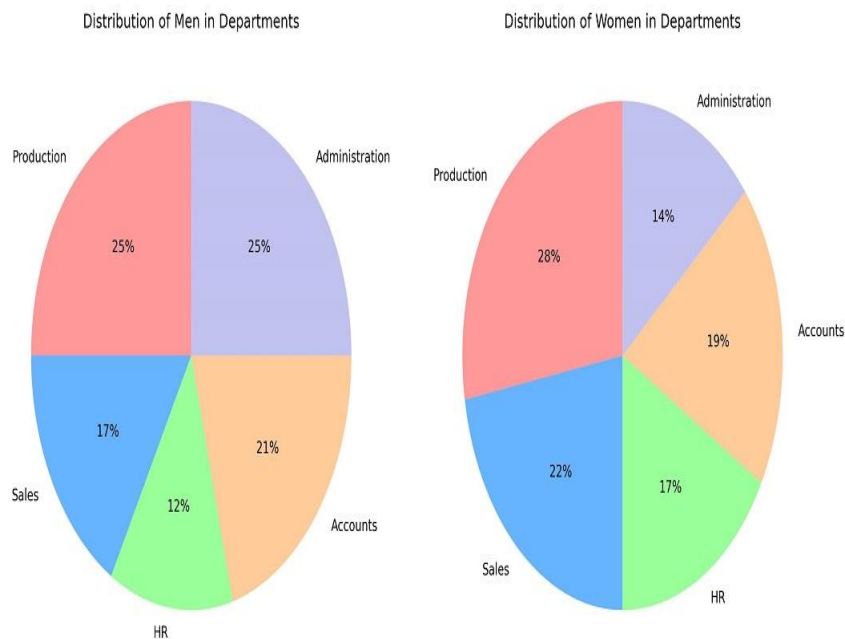
Q.49 A hollow hemispherical steel bowl can contain $\frac{686\pi}{3}$ cubic units of li
(in cubic units) was used to make the bowl?

- Ans
- ☐ A. $\frac{769\pi}{3}$
 - ☐ B. $\frac{767\pi}{3}$
 - ☒ C. $\frac{772\pi}{3}$
 - ☐ D. $\frac{770\pi}{3}$

Q.50 If the mode of a grouped data is 45.2, lower limit of modal class is 40, $f_1 = 25$, $f_0 = 18$, what is the value of f_2 ? (Rounded off to the nearest value)

- Ans**
- ☒ A. 16
 - ☒ B. 18
 - ☒ C. 19
 - ☒ D. 20

Q.51 The pie charts given below illustrate the distribution of male and female employees across various departments in a company.



If there are 600 men and 900 women in the company, find the total number of workers in the Production department.

- Ans**
- ☒ A. 450
 - ☒ B. 350
 - ☒ C. 402
 - ☒ D. 500

Q.52 The sum of two positive numbers is 76 and their product is 1408. The positive difference between them is:

- Ans**
- ☒ A. 12
 - ☒ B. 9
 - ☒ C. 5
 - ☒ D. 8

Q.53 A shopkeeper marks an article at 30% above the cost price and allows a discount of 10%. Find his profit percentage.

- Ans**
- ☒ A. 15%
 - ☒ B. 17%
 - ☒ C. 20%
 - ☒ D. 12%

Q.54

The simplified value of $\frac{(38^6 \times 2^4 \times 96^{16})}{(38^5 \times 2^3 \times 96^{15})}$ is

Ans ☒ A. 7290

☒ B. 7301

☒ C. 7296

☒ D. 7295

Q.55 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: A two/three digit number cannot be broken into individual digits for operations. E.g.: If 37 is followed by 10, the operation cannot be $3 + 7$ as a two digit number cannot be broken into individual digits.)

20 – 33 – 27 – 35

15 – 28 – 22 – 30

Ans ☒ A. 9 – 22 – 16 – 25

☒ B. 8 – 21 – 15 – 23

☒ C. 4 – 17 – 23 – 31

☒ D. 7 – 20 – 14 – 6

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing "pruning," much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 56

Q.56 Identify the most appropriate title for the passage.

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing "pruning," much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 57

Q.57 The tone of the passage can best be described as _____.

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 58

Q.58 According to the passage, which part of the brain matures last?

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 59

Q.59 Which statement best captures the author's viewpoint?

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 60

Q.60 The word 'pruning' as used in the text suggests _____.

Q.61 3 chairs and 15 tables cost ₹6300 and 7 chairs and 12 tables cost ₹7800. What is the cost of 11 chairs and 16 tables?

- Ans**
- ☒ A. ₹11397
 - ☒ B. ₹11398
 - ☒ C. ₹11400
 - ☒ D. ₹11404

Q.62 A can complete a piece of work in 12 days and B can complete it in 18 days. If they work on alternate days, starting with B on the first day, then in how many days will the work be completed?

- Ans**
- ☐ A. 14
 - ☐ B. 15
 - ☐ C. $15\frac{1}{2}$
 - ☒ D. $14\frac{1}{2}$

Q.63 The ratio of the speed of a boat in still water to the speed of a stream is 16:5. A boat goes 16.5 km upstream in 45 minutes. Find the time (in minutes) taken by the boat to cover 17.5 km downstream.

- Ans**
- ☐ A. 30
 - ☐ B. 27
 - ☐ C. 22
 - ☒ D. 25

Q.64 An arithmetic progression has 54 as its first term and 72 as its last term, with a total of 10 terms. What is the sum of these 10 terms?

- Ans**
- ☐ A. 631
 - ☐ B. 627
 - ☐ C. 632
 - ☒ D. 630

Q.65 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☐ A. PR-TV
 - ☐ B. SU-WY
 - ☐ C. IK-MO
 - ☒ D. DF-HK

Q.66 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 1324756, then what will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

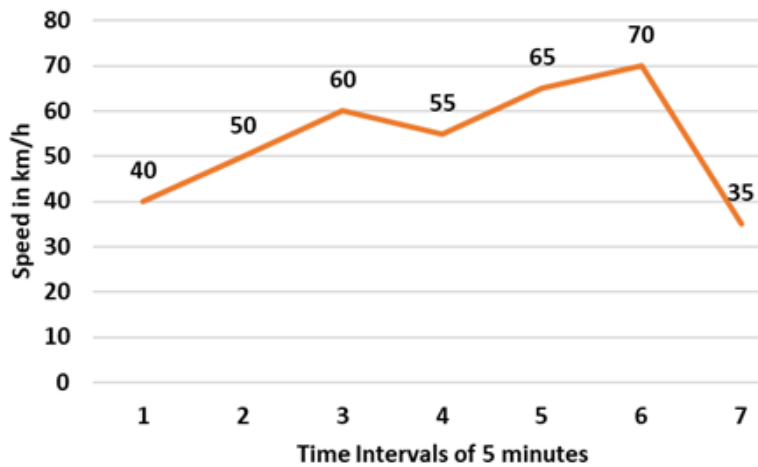
- Ans**
- ☐ A. 6
 - ☒ B. 12
 - ☐ C. 7
 - ☐ D. 5

Q.67 Find the value of the following expression.

$$5^2 + 10^2 + 15^2 + \dots + 50^2$$

- Ans**
- ☐ A. 9525
 - ☐ B. 8625
 - ☐ C. 10525
 - ☒ D. 9625

- Q.68** The graph depicts the speed at which Rishi travels to office, where on the X-axis the intervals mentioned are at the end of every 5 minutes. What is the time taken (in minutes) for Rishi's constant increase of speed from 55 km/h to a speed of 70 km/h?



- Ans** ☒ A. 15
☒ B. 5
☒ C. 20
☒ D. 10
- Q.69** Refer to the following number series and answer the question that follows. Counting is to be done from left to right only. (All numbers are single-digit numbers only.)

(Left) 2 6 4 6 2 6 7 3 8 6 3 1 8 6 1 9 8 9 1 7 7 6 3 7 5 5 2 (Right)

How many such odd numbers are there that are immediately preceded by an odd number and also immediately followed by an odd number?

- Ans** ☒ A. Four
☒ B. Three
☒ C. Six
☒ D. Five
- Q.70** A cuboid of dimension 48 cm by 80 cm by 96 cm is to be divided in to identical cubes. With the maximum possible value of side of the identical cube possible, find the total volume of all the cubes (in cm^3).

- Ans** ☒ A. 2,14,230
☒ B. 1,61,440
☒ C. 3,68,640
☒ D. 5,52,960
- Q.71** The H.C.F. and the L.C.M. of two numbers are 34 and 408, respectively. If one of the numbers is 102, then find the other number.

- Ans** ☒ A. 64
☒ B. 122
☒ C. 136
☒ D. 121

Q.72 If 135 kg of corn feeds 45 horses for 8 days, for how long will the same quantity of corn feed 24 horses?

- Ans** ☒ A. 17 days
☒ B. 15 days
☒ C. 18 days
☒ D. 13 days

Q.73 A, B, C, D, J, K, L and M are sitting around a square table, facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides.
Only three people sit between L and M. L sits at the centre of one of the sides. A sits second to the left of M. D sits second to the right of C. J sits at one of the corners and is not an immediate neighbour of M. Only three people sit between D and K. J is not an immediate neighbour of B.
Who sits fourth to the left of B?

- Ans** ☒ A. K
☒ B. M
☒ C. J
☒ D. A

Q.74 A total of ₹14,800 is to be divided among A, B, and C such that 6 times of A's share = 4 times of B's share = 5 times of C's share. Find A's share.

- Ans** ☒ A. ₹4,076
☒ B. ₹3,867
☒ C. ₹3,990
☒ D. ₹4,000

Q.75 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some cranes are marbles.
All marbles are balls.

Conclusions:

(I) Some cranes are balls.
(II) All balls are marbles.

- Ans** ☒ A. Only conclusion (I) follows.
☒ B. Both conclusions (I) and (II) follow.
☒ C. Neither conclusion (I) nor (II) follows.
☒ D. Only conclusion (II) follows.

Q.76 An item is marked 154% higher than its cost price. Even after allowing some discount, the shopkeeper earns a 27% profit. Find the discount percentage allowed by the shopkeeper.

- Ans** ☒ A. 47%
☒ B. 53%
☒ C. 48%
☒ D. 50%

Q.77 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: SNJ :: QLH : %

- Ans**
- ☒ A. # = OPD, % = WVN
 - ☒ B. # = IOD, % = WNB
 - ☒ C. # = MHD, % = WRN
 - ☒ D. # = MNM, % = AZN

Q.78 There are 6,200 candidates appeared in a CAT examination and the ratio of boys to girls in the school is 23 : 39. Find the number of boys appeared in the CAT examination.

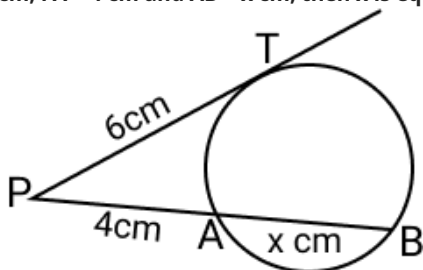
- Ans**
- ☒ A. 2,304
 - ☒ B. 2,293
 - ☒ C. 2,306
 - ☒ D. 2,300

Q.79 What should come in place of the question mark (?) in the given series?

451 450 460 458 470 467 481 ?

- Ans**
- ☒ A. 478
 - ☒ B. 476
 - ☒ C. 479
 - ☒ D. 477

Q.80 In the given figure, PAB is a secant and PT is a tangent to the circle from P. If PT = 6 cm, PA = 4 cm and AB = x cm, then x is equal to:



- Ans**
- ☒ A. 5
 - ☒ B. 4
 - ☒ C. 3
 - ☒ D. 6

Q.81 A solid hemisphere of radius 14 cm is melted and recast into small hemispheres each of radius 7 cm. How many small hemispheres are formed?

- Ans**
- ☒ A. 27
 - ☒ B. 8
 - ☒ C. 6
 - ☒ D. 16

Q.82 Find the mode for the following data representing weekly wages (₹) of workers.

Wage Range (₹)	Frequenc y
200-250	6
250-300	12
300-350	20
350-400	25
400-450	10
450-500	7

Ans ☒ A. 360.5

☒ B. 362.5

☒ C. 364

☒ D. 361

Q.83 The least number which when increased by 7 is divisible by each of the numbers 32, 36, 54 and 64 is:

Ans ☒ A. 1632

☒ B. 1721

☒ C. 1245

☒ D. 1439

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 84

Q.84 What is the central theme of the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 85

Q.85 What is the ANTONYM of 'solitary' as used in the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 86

Q.86 Which of the following is a fact stated in the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 87

Q.87 Which title best captures the essence of the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

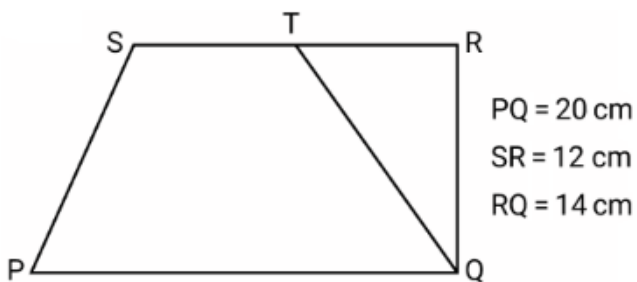
SubQuestion No : 88

Q.88 What best describes the tone of the passage?

Q.89 An article is currently priced at ₹10,000. Its price increases by 26% in the first year and by 65% in the second year, but then decreases by 20% in the third year. What will be the price (in ₹) of the article at the end of the third year?

- Ans
- ☒ A. 16,634
 - ☒ B. 16,637
 - ☒ C. 16,628
 - ☒ D. 16,632

Q.90 In the following figure PQRS, $PQ \parallel RS$ and angle $R = 90^\circ$. If the area of triangle QRT = 42 cm^2 , then find the area of PQST (in cm^2).



- Ans
- ☒ A. 220
 - ☒ B. 182
 - ☒ C. 204
 - ☒ D. 198

Q.91 Find the value of y , satisfying $23 \times 7 \times 616 \div \sqrt{3136} = y + 506$

- Ans
- ☒ A. 1271
 - ☒ B. 1265
 - ☒ C. 1256
 - ☒ D. 1275

Q.92 Find the value of m for which it satisfies

$$\left(\frac{24}{7}\right)^5 \times \left(\frac{7}{24}\right)^{16} \times \left(\frac{24}{7}\right)^6 = \left(\frac{7}{24}\right)^{8m+4}$$

Ans

☐ A. $-\frac{1}{8}$

☐ B. $\frac{7}{8}$

☐ C. $\frac{5}{8}$

☒ D. $\frac{1}{8}$

Q.93 The average of 8 numbers is 59. If each number is increased by 6, what will the new average be?

Ans

☐ A. 8

☐ B. 71

☒ C. 65

☐ D. 59

Q.94 Find the median of all the odd numbers between 520 and 550.

Ans

☒ A. 535

☐ B. 537

☐ C. 533

☐ D. 531

Q.95 Refer to the following letter-symbol series and answer the question that follows.
Counting is to be done from left to right only.

(Left) K @ % H U # A W N * Z Σ V F Ω L \$ E P & M (Right)

How many such symbols are there each of which is immediately preceded by a vowel but not immediately followed by a vowel?

Ans

☐ A. Two

☐ B. Three

☒ C. None

☐ D. One

Q.96 $\triangle ABC$ and $\triangle ADE$ are such that point D lies on side BC. If $AB = AD$, $AC = AE$ and $\angle BAD = \angle EAC$, then which of the following relations is correct?

Ans

☐ A. $BC > DE$

☐ B. $BC = BA$

☒ C. $BC = DE$

☐ D. $BC < DE$

Q.97 Fourth proportion to 12, 18 and 6 is same as the third proportion to 4 and k. What is the positive value of k?

Ans

☐ A. 8

☐ B. 7

☐ C. 4

☒ D. 6

Q.98 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. B lives on an odd numbered floor but not on floor number 5. Only three people live between C and A. A lives immediately below B. F lives immediately above E. How many people live between D and F?

- Ans** ☒ A. Three
☐ B. Two
☐ C. One
☐ D. None

Q.99 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$96 \times 16 - 13 \div 12 + 28 = ?$$

- Ans** ☐ A. 132
☐ B. 131
☒ C. 134
☐ D. 133

Q.100 Each of G, H, I, J, N, O and P has a flight on a different day of the week, starting from Monday and ending on Sunday of the same week. Only I has a flight after H. Only three people have flights between N and H. Only three people have flights between O and I. J has a flight on some day before P and on some day after G. How many people have flights between G and J?

- Ans** ☐ A. Three
☒ B. Two
☐ C. One
☐ D. Four



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - 08/2025 - CEN - 04/2025
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Center Name	Harmony Educational Academy Latur
Test Date	11/02/2026
Test Time	9:00 AM - 11:00 AM
Subject	RRB SECTION CONTROLLER CBT 1

*** Note**

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

- Options shown in green color with a tick icon are correct.
- Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

- Q.1** The circumference of the base of a solid right circular cylinder is 88 cm and its height is 153 cm. What is the volume (in cm^3) of the cylinder?

Take $\pi = \frac{22}{7}$

- Ans** ☒ A. 94,248
☒ B. 93,794
☒ C. 94,453
☒ D. 95,071

- Q.2** The simplified value of $83 - [84 - (96 \div 4 - (16 - 36 \div 9) \div 2)]$ is:

- Ans** ☒ A. 14
☒ B. 17
☒ C. 18
☒ D. 22

- Q.3** Kavita, Rakesh, and Shalini invested in a business in the ratio 5:8:15. They invested their capitals for 8 months, 7 months and 4 months, respectively. What was the ratio of their profits?

- Ans** ☒ A. 13:14:15
☒ B. 10:14:15
☒ C. 11:14:15
☒ D. 12:14:15

- Q.4** A retailer buys an electronic item for ₹230. His overhead expenses are ₹10. He sells the electronic item for ₹480 and makes x% profit. The value of x is:

- Ans** ☒ A. 80
☒ B. 90
☒ C. 120
☒ D. 100

Q.5 Find the mode (in ₹) for the following set of data of income of 40 people (rounded off to nearest integer).

Income (in ₹): 1000-1200 1200-1400 1400-1600 1600-1800 1800-2000
Number of people: 5 8 15 7 5

- Ans** ☒ A. 1456
☒ B. 1493
☒ C. 1535
☒ D. 1522

Q.6 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

ODL IJE CPD WVZ QBV

- Ans** ☒ A. ODL
☒ B. IJE
☒ C. WVR
☒ D. QBN

Q.7 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: ZQV :: PGK : %

- Ans** ☒ A. # = XOS, % = RIN
☒ B. # = WTU, % = LKH
☒ C. # = XTR, % = LJG
☒ D. # = XUT, % = MJO

Q.8 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

TDN DNX NXH XHR HRB ROL

- Ans** ☒ A. HRB
☒ B. DNX
☒ C. TDN
☒ D. ROL

Q.9 The current population of a town is 16,000. It increases by 40% and 25% in two successive years but decreases by 62% in the third year. What is the population of the town at the end of the third year?

- Ans** ☒ A. 10,639
☒ B. 10,640
☒ C. 10,642
☒ D. 10,638

Q.10 A can complete a piece of work in 57 days. B is 80% less efficient than A. C is 50% more efficient than B. B and C work together for 54 days. A alone will complete the remaining work in:

- Ans** ☒ A. 35 days
☒ B. 30 days
☒ C. 26 days
☒ D. 27 days

Q.11

The simplified value of $\frac{(98^6 \times 18^{14} \times 2^{15})}{(98^5 \times 18^{13} \times 2^{13})}$ is

- Ans ☒ A. 7056
☒ B. 7055
☒ C. 7051
☒ D. 7058

Q.12 The circumference of the base of a cylindrical vessel is 220 cm and its height is 60 cm. How many litres of water can it hold?

- Ans ☒ A. 202
☒ B. 216
☒ C. 233
☒ D. 231

Q.13 The average height of 15 boys out of a class of 60 boys is 164 cm. If the average height of the remaining boys is 169 cm, then the average height of the whole class (in cm) is:

- Ans ☒ A. 167.75
☒ B. 168.75
☒ C. 167.5
☒ D. 166.5

Q.14 A conical tent was erected by Army at a base camp to accommodate people. The height of the tent is 42 m and the area of the base camp is 200 m². If each person requires 70 m³ of air to breathe, how many persons can be accommodated in that tent?

(Use $\pi = 22/7$)

- Ans ☒ A. 40
☒ B. 60
☒ C. 45
☒ D. 50

Q.15 This question is based on the five, three-digit numbers given below.

(Left) 756 723 789 347 359 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations are to be done from left to right.

What will be the resultant if the second digit of the second highest number is added to the third digit of the second lowest number?

- Ans ☒ A. 11
☒ B. 14
☒ C. 9
☒ D. 12

Q.16 Six people, H, I, J, N, O and P, live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, numbered 2 and so on, till the topmost floor, which is numbered 6. Only two people live between N and P. No one lives above I. Only two people live between I and O. Only four people live between I and H. N lives above O. How many people live below J?

- Ans** ☐ A. One
☐ B. Two
☐ C. Four
☒ D. Three

Q.17 Two triangles have the same base of 24 cm. The ratio of their heights is 5 : 7 and the sum of their areas is 1728 cm^2 . What is the height of the larger triangle?

- Ans** ☐ A. 78 cm
☒ B. 84 cm
☐ C. 90 cm
☐ D. 72 cm

Q.18 The ratio of Ruby and Anita's salary is 4 : 3. Ruby and Anita receive a festival allowance of ₹1,000 and ₹2,000, respectively, in a certain month, which makes the ratio of their salary as 5 : 4. Find the difference in the salaries (in ₹) of Ruby and Anita.

- Ans** ☐ A. 7,000
☐ B. 6,500
☐ C. 5,200
☒ D. 6,000

Q.19 In a circular race of 2715 m, Abhay and Bharti start from the same point and at the same time with speeds of 20 km/h and 34 km/h, respectively. After how long will they meet again for the first time on the track when they are running in the opposite directions?

- Ans** ☐ A. 178 seconds
☐ B. 186 seconds
☐ C. 187 seconds
☒ D. 181 seconds

Q.20 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: FKG :: PUQ : %

- Ans** ☐ A. # = LIM, % = JZK
☒ B. # = LQM, % = JOK
☐ C. # = LIO, % = MNK
☐ D. # = HJM, % = JLP

Q.21 Box A contains 5 red and 4 white marbles and box B contains 3 red and 6 white marbles. If a marble is drawn from each box, what is the probability that they are both of the same colour?

- Ans** ☒ A. $\frac{13}{27}$
☐ B. $\frac{11}{27}$
☐ C. $\frac{17}{27}$
☐ D. $\frac{19}{27}$

Q.22 At a health club, 55% of the members are women and 45% of the members are men. If the average age of the men is 50 years and the average age of the women is 40 years, what is the average age (in years) of all the members?

- Ans** ☐ A. 43.8
☐ B. 43.6
☐ C. 44.9
☒ D. 44.5

Q.23 The given table shows the distribution of weekly wages (₹) of workers. Find the mode.

Wages (₹)	100–150	150–200	200–250	250–300	300–350
Frequency	6	12	15	24	15

- Ans** ☐ A. 260
☒ B. 275
☐ C. 270
☐ D. 265

Q.24 In a certain code language, 'DRAW' is coded as '6924' and 'WINS' is coded as '1356'. What is the code for 'W' in the given code language?

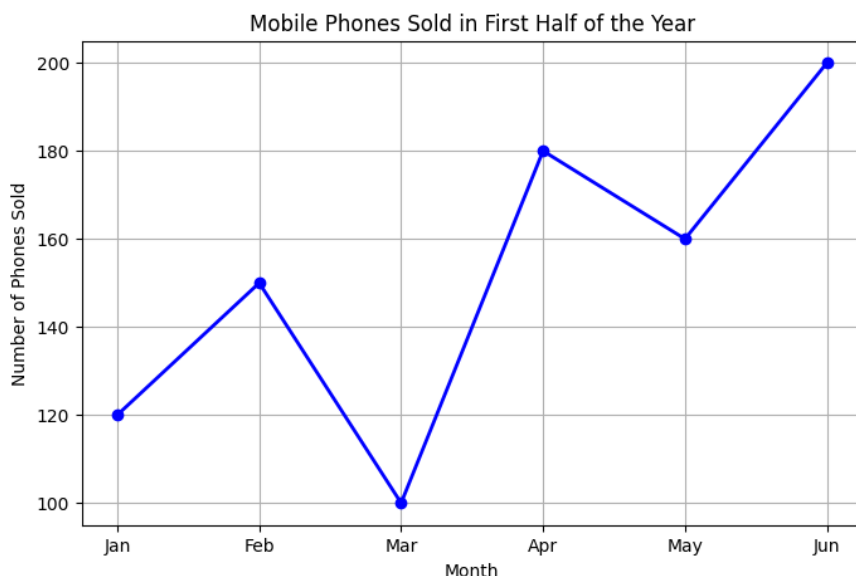
- Ans** ☐ A. 3
☐ B. 4
☒ C. 6
☐ D. 1

Q.25 The sum of the present ages of Hitesh and Jitesh is 96 years. After 2 years from now, Hitesh's age will be three times that of Jitesh. Hitesh's present age (in years) is:

- Ans** ☐ A. 76
☐ B. 75
☒ C. 73
☐ D. 67

Q.26 Study the line graph and answer the question that follows.

The given line graph shows the number of mobile phones sold by a store during the first six months of a year.



(Note: Number of phones sold in February were 150.)

Find the average monthly sales of phones. (Round off your answer to the nearest integer.)

- Ans** ☒ A. 150
☒ B. 152
☒ C. 162
☒ D. 174

Q.27 By how much is 30% of 65 greater than 35% of 50?

- Ans** ☒ A. 4
☒ B. 2
☒ C. 1
☒ D. 3

Q.28 Given the ratio of the perimeters of two squares is 7:11, find the ratio of their areas.

- Ans** ☒ A. 121:49
☒ B. 121:7
☒ C. 7:121
☒ D. 49:121

Q.29 Eight persons A, B, C, D, E, F, G and H are sitting around a square table, facing the centre of the table. Some of them are sitting at the corners, while some are sitting at the exact centres of the sides. B is sitting second to the left of E. E is sitting at the centre of one of the sides. Only three people are sitting between G and B when counted from the left of B. D is sitting to the immediate right of G. Only one person is sitting between F and D when counted from the left of F. F is not an immediate neighbour of E. A is sitting third to the right of B. C is sitting to the immediate left of E. How many people are sitting between H and B when counted from the left of B?

- Ans** ☒ A. Four
☒ B. Two
☒ C. Three
☒ D. One

Q.30 Simplify: $\sqrt{289} + \sqrt{0.0289} - \sqrt{4.84}$

- Ans**
- ☒ A. 8.76
 - ☒ B. 8.19
 - ☒ C. 14.97
 - ☒ D. 1.11

Q.31 Three identical cubes, each with edge 8 cm, are placed adjacent to each other to form a cuboid. What is the percentage decrease in the total surface area compared to the sum of surface areas of the three separate cubes? (Rounded off to two decimal places.)

- Ans**
- ☒ A. 22.22%
 - ☒ B. 20.24%
 - ☒ C. 25.67%
 - ☒ D. 27.53%

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 32

Q.32 Which of the following is the most suitable title for the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 33

Q.33 What is the central theme of this passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 34

Q.34 Which of the following is a fact explicitly stated in the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 35

Q.35 Based on the passage, which inference can logically be drawn?

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 36

Q.36 Which of the following best describes the tone of the passage?

Q.37 The simplified value of $\frac{16}{45} \times (98 + 20) + 97$ is

- Ans**
- ☒ A. $\frac{6253}{45}$
 - ☐ B. $\frac{6257}{45}$
 - ☐ C. $\frac{6262}{45}$
 - ☐ D. $\frac{6256}{45}$

Q.38 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☐ A. NLH
 - ☒ B. WUR
 - ☐ C. FDZ
 - ☐ D. ZXT

Q.39 What should come in place of the question mark (?) in the given series?

91 92 96 97 101 ?

- Ans**
- ☐ A. 104
 - ☐ B. 101
 - ☐ C. 103
 - ☒ D. 102

Q.40 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

HLH-DHD
LPL-HLH

- Ans**
- ☐ A. GKG-BGB
 - ☐ B. GJE-BFB
 - ☒ C. GKG-CGC
 - ☐ D. GJE-CGC

Q.41 Pure ghee costs ₹120 per kg. After adulterating it with vegetable oil costing ₹60 per kg, a shopkeeper sells the mixture at the rate of ₹98 per kg, thereby making a profit of 40%. In what ratio does he mix the two?

- Ans**
- ☐ A. 2 : 7
 - ☐ B. 3 : 7
 - ☐ C. 2 : 5
 - ☒ D. 1 : 5

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous *Bagheera kiplingi*, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 42

Q.42 Which title best encapsulates the passage?

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous *Bagheera kiplingi*, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 43

Q.43 Which spider is known to have caused no fatalities since the anti-venom's development in 1981?

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous *Bagheera kiplingi*, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 44

Q.44 What does the passage suggest about the perception versus reality of spiders?

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous *Bagheera kiplingi*, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 45

Q.45 According to the passage, spider silk replication is significant because

_____.

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous *Bagheera kiplingi*, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 46

Q.46 Identify the synonym of the word 'replicated' as used in the passage.

Q.47 This question is based on the five, three-digit numbers given below.

(Left) 321 354 387 627 681 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations are to be done from left to right.

What will be the resultant if the second digit of the second highest number is added to the third digit of the lowest number?

- Ans
- ☒ A. 4
 - ☒ B. 7
 - ☒ C. 3
 - ☒ D. 2

Q.48 An arithmetic progression has 42 as its first term, 60 as its last term, and a total of 14 terms. What is the sum of these 14 terms?

- Ans
- ☒ A. 716
 - ☒ B. 711
 - ☒ C. 717
 - ☒ D. 714

Q.49 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(288,8,6)
(210,7,5)

- Ans
- ☒ A. (204,9,4)
 - ☒ B. (316,7,8)
 - ☒ C. (252,7,6)
 - ☒ D. (216,9,5)

Q.50 The sum of two positive numbers is 32 and their product is 112. The positive difference between them is:

- Ans
- ☒ A. 22
 - ☒ B. 20
 - ☒ C. 18
 - ☒ D. 24

Q.51 AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and $\angle PEB = 49^\circ$. G is a point between AB and CD such that $\angle BEG = 29^\circ$ and $\angle GFE = 24^\circ$. What is the measure of $\angle EGF$?

- Ans**
- ☐ A. 60°
 - ☐ B. 62°
 - ☐ C. 66°
 - ☒ D. 54°

Q.52 The HCF of two numbers is 12, and their product is 31,104. How many such pairs of numbers are possible?

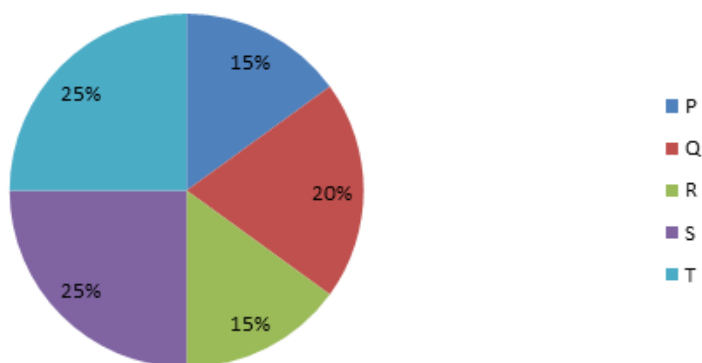
- Ans**
- ☒ A. 2
 - ☐ B. 1
 - ☐ C. 4
 - ☐ D. 5

Q.53 If a man bought 8 erasers for ₹4, and sold them at 5 erasers for ₹8, then the gain percentage is:

- Ans**
- ☐ A. 230%
 - ☒ B. 220%
 - ☐ C. 210%
 - ☐ D. 240%

Q.54 The following pie chart shows the enrolment of students into tenth class in 5 different schools: P, Q, R, S and T. The total number of students enrolled is 2,000. Study the chart and answer the question that follows.

Enrolment of students into 5 schools P, Q, R, S and T



Find the total number of students enrolled in schools P, R and S.

- Ans**
- ☐ A. 1,400
 - ☒ B. 1,100
 - ☐ C. 1,200
 - ☐ D. 1,000

Q.55 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 1326342, then what will be the difference between the highest and the lowest digits in the number thus formed?

- Ans** ☒ A. 4
☐ B. 7
☐ C. 5
☐ D. 6

Q.56 The average of 8 numbers is 59. If each number is increased by 4, what will the new average be?

- Ans** ☐ A. 8
☐ B. 59
☒ C. 63
☐ D. 67

Q.57 Two circles with centres O and O', with radii 6 cm and 8 cm, respectively, intersect at two points A and B. If OA is a tangent to the circle with centre O' and vice versa, what is the length of the common chord AB?

- Ans** ☐ A. 13.55 cm
☐ B. 14.23 cm
☒ C. 9.60 cm
☐ D. 11.44 cm

Q.58 Find an estimate of the variance of the following data (rounded off to two decimal places).

Class: 0-10 10-20 20-30 30-40 40-50
Frequency: 8 16 24 25 17

- Ans** ☐ A. 185.05
☐ B. 190.34
☐ C. 163.11
☒ D. 147.67

Q.59 The marks scored by 10 students are given below.

16, 13, 20, 18, 16, 14, 18, 11, 10, 16

The mode of the data is:

- Ans** ☐ A. 18
☐ B. 13
☒ C. 16
☐ D. 20

Q.60 The following table shows the price (in ₹ per 100 kg) of different items during different years. Answer the given question based on this table. What is the average price (in ₹ per 10 kg) of pulses from the years 1990 to 2010?

	1990	1995	2000	2005	2010
Rice	800	1150	1680	2400	3500
Wheat	450	700	1200	1650	2100
Pulses	2000	2700	3650	4600	6400
Sugar	1500	2200	3000	3800	4500
Ground nut	1200	1700	2450	3500	4200
Oil	4200	5500	6400	800	11000

- Ans** ☒ A. 404
☒ B. 414
☒ C. 394
☒ D. 387

Q.61 Three cubes of sides 1 cm, 6 cm and 8 cm are melted to form a new cube. Find $(\frac{2}{3})^{\text{rd}}$ of the surface area of the new cube.

- Ans** ☒ A. 648 cm²
☒ B. 162 cm²
☒ C. 486 cm²
☒ D. 324 cm²

Q.62 Six people, H, I, J, N, O and P, live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor, which is numbered 6. N lives on floor numbered 2. H lives on a floor below N. Only four people live between O and H. P lives on an even-numbered floor. J lives on an odd-numbered floor but not on floor number 5. How many people live between I and N?

- Ans** ☒ A. Three
☒ B. Four
☒ C. One
☒ D. Two

Q.63 A shopkeeper marks an article at ₹x and offers a discount of 70% on it. He sells it for ₹384 after charging a VAT of 60% on the discounted price. What is the value of x?

- Ans** ☒ A. 800
☒ B. 900
☒ C. 600
☒ D. 1,000

Q.64 Two taps can fill a cistern in 3 hours and 48 hours, respectively. A third tap can empty the filled cistern in 48 hours. How long (in hours) will it take to fill two-third of the empty cistern if all of them are opened together?

- Ans** ☒ A. 6
☒ B. 2
☒ C. 8
☒ D. 4

Q.65 A brick measures 5 m in length, 4 m in breadth and 3 cm in height. How many bricks will be used to make a wall of length 15 m, breadth 20 m and height 4 m?

- Ans** ☒ A. 2,000
☒ B. 20
☒ C. 20,000
☒ D. 200

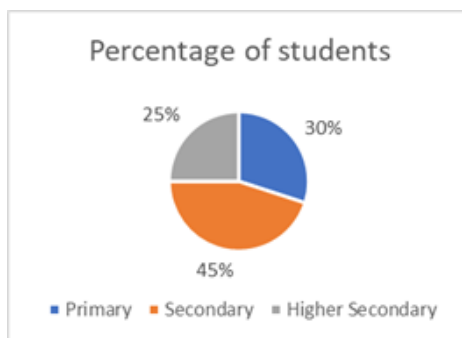
Q.66 Each of G, H, I, J, N, O and P has a flight on a different day of a week, starting from Monday and ending on Sunday of the same week. Only one person has a flight after J. Only three people have flights between P and O. Only one person has a flight between H and N. Only two people have flights between J and P. I has a flight immediately before H. How many people have flights between G and H?

- Ans** ☒ A. Two
☒ B. Four
☒ C. One
☒ D. Three

Q.67 In what ratio must a grocer mix two varieties of wheat worth ₹94 per kg and ₹116 per kg, so that if he sells the mixture at ₹144 per kg, he may gain 44%?

- Ans** ☒ A. 8:3
☒ B. 9:4
☒ C. 5:2
☒ D. 7:3

Q.68 The pie-chart shows percentage of students availing scholarship in a school. If the total strength of the school is 3850 and the ratio of students in primary section to secondary section to higher secondary section is 5 : 4 : 2, find the number of secondary students who availed the scholarship.



- Ans** ☒ A. 630
☒ B. 742
☒ C. 788
☒ D. 670

Q.69 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans** ☒ A. FKMQ
☒ B. QVXB
☒ C. WBDH
☒ D. BGIN

Q.70 The amount of extension in an elastic string varies directly with the weight hung on it. If a weight of 127 gm produces an extension of 2.3 cm, then what weight would produce an extension of 16.1 cm?

- Ans** ☒ A. 889 gm
 ☐ B. 917 gm
 ☐ C. 1048 gm
 ☐ D. 762 gm

Q.71 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some pen are lead.

Some lead are ruler.

Conclusions:

(I): Some pen are ruler.

(II): All ruler are lead.

- Ans** ☐ A. Both conclusions (I) and (II) follow.
 ☒ B. Neither conclusion (I) nor (II) follows.
 ☐ C. Only conclusion (I) follows.
 ☐ D. Only conclusion (II) follows.

Q.72 If a man travels at the rate of 12 kmph, he misses a train by 7 minutes. However, if he travels at the rate of 30 kmph, he reaches the station 5 minutes before the arrival of the train. Find the distance covered by him to reach the station.

- Ans** ☒ A. 4 km
 ☐ B. 14 km
 ☐ C. 8 km
 ☐ D. 12 km

Q.73 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans** ☒ A. TU-XY
 ☐ B. DE-GH
 ☐ C. RS-UV
 ☐ D. MN-PQ

Q.74 The 7-digit number 71A510B is divisible by 3. What is the maximum value of (A + B)?

- Ans** ☒ A. 16
 ☐ B. 13
 ☐ C. 11
 ☐ D. 12

Q.75 The ratio of the heights of a right circular cone and a right circular cylinder is 2 : 9 and the ratio of the radii of their bases is 7 : 2. If the volume of the cylinder is 972 cm³, then the volume (in cm³) of the cone is:

- Ans** ☐ A. 889
 ☐ B. 891
 ☒ C. 882
 ☐ D. 885

Q.76 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.
 In row 1 – C, D, E and F are seated and all of them are facing south.
 In row 2 – J, K, L and M are seated and all of them are facing north.
 Thus each person faces another person from the other row. C sits third to the right of E. The one facing M is an immediate neighbour of E. The one facing D is an immediate neighbour of M. The one facing C is an immediate neighbour of L. J sits at some place to the left of K.
 Who amongst the following faces L?

- Ans**
- ☒ A. F
 - ☒ B. E
 - ☒ C. D
 - ☒ D. C

Q.77 The mode and median of a data are 13.8 and 64, respectively. What is the mean of the data? (Use empirical formula.)

- Ans**
- ☒ A. 80.4
 - ☒ B. 89.1
 - ☒ C. 92.1
 - ☒ D. 93.3

Q.78 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 7145632, then how many digits will appear more than once in the new number thus formed?

- Ans**
- ☒ A. 3
 - ☒ B. 1
 - ☒ C. 2
 - ☒ D. 0

Q.79 The median of the following data is 350.

Class Interval Frequency

	y
0 - 100	4
100 - 200	6
200 - 300	x
300 - 400	10
400 - 500	y
500 - 600	8

What are the values of x and y if the total frequency is 40?

- Ans**
- ☒ A. x = 6, y = 6
 - ☒ B. x = 8, y = 4
 - ☒ C. x = 5, y = 7
 - ☒ D. x = 3, y = 9

Q.80 A solid metallic sphere of radius 12 cm is melted and recast into smaller spherical balls of 2 cm radius each. What will be the total surface area of all the spherical balls so obtained?

- Ans**
- ☒ A. 2304π sq. cm
 - ☒ B. 3456π sq. cm
 - ☒ C. 216π sq. cm
 - ☒ D. 864π sq. cm

Q.81 After successive discounts of 12% and 5% an article was sold for ₹418. What was the original price of the article?

- Ans ☐ A. ₹ 536
☐ B. ₹ 516
☐ C. ₹ 496
☒ D. ₹ 500

Q.82 The 7-digit number 98A038B is divisible by 3. What is the maximum value of (A + B)?

- Ans ☐ A. 18
☐ B. 12
☒ C. 17
☐ D. 16

Q.83 The H.C.F. and the L.C.M. of two numbers are 13 and 585, respectively. If one of the numbers is 117, then find the other number.

- Ans ☐ A. 13
☐ B. 52
☐ C. 78
☒ D. 65

Q.84 A and B have incomes in the ratio 4:3 and expenditures in the ratio 2:1. If A saves ₹5,000 and B saves ₹6,000, then A's expenditure exceeds B's by how much?

- Ans ☐ A. ₹5,000
☐ B. ₹3,500
☐ C. ₹3,000
☒ D. ₹4,500

Q.85 The following data pertaining to the number of insects per plant. Find median number of insects per plant.

Number of insects per plant (x)	1	2	3	4	5	6	7	8	9	10	11	12
No. of plants (f)	1	3	5	6	10	13	9	5	3	2	2	1

- Ans ☐ A. 9
☒ B. 6
☐ C. 5
☐ D. 8

Q.86 If 'P' stands for '+', 'Q' stands for '×', 'R' stands for '+' and 'S' stands for '-', then what will be come in place of question mark (?) in the following equation?

$$44 \text{ Q } 8 \text{ S } 91 \text{ P } 13 \text{ R } 67 = ?$$

- Ans ☐ A. 421
☐ B. 415
☒ C. 412
☐ D. 451

Q.87 Two fair cubical dice, with the faces numbered from 1 to 6 in each of the dice, are rolled. What is the probability that the sum of the numbers on the two faces that appear on top is 8, given that each of the two faces that appear on top shows an odd number?

- Ans**
- ☒ A. $\frac{5}{36}$
 - ☒ B. $\frac{1}{18}$
 - ☒ C. $\frac{2}{9}$
 - ☒ D. $\frac{2}{5}$

Q.88 Suman has a brother, Tushar. Tushar's daughter is Urmi. Urmi is married to Vikram; Vikram has a son, Yash. How is Urmi related to Suman?

- Ans**
- ☒ A. Sister's daughter
 - ☒ B. Wife
 - ☒ C. Daughter
 - ☒ D. Brother's daughter

Q.89 To complete a project, 12 men work for 10 days, working 9 hours per day. How many hours per day should 16 men work to finish the project in 5 days?

- Ans**
- ☒ A. 12.5
 - ☒ B. 11.5
 - ☒ C. 10.5
 - ☒ D. 13.5

Q.90 Each of the digits in the number 3187569 is arranged in ascending order from left to right. What will be the sum of the digits which are first from the left and first from the right in the new number thus formed?

- Ans**
- ☒ A. 10
 - ☒ B. 11
 - ☒ C. 8
 - ☒ D. 12

Q.91 If the sides of a triangle are 12 cm, 35 cm and 37 cm, then the circum radius is:

- Ans**
- ☒ A. 18.5 cm
 - ☒ B. 16.5 cm
 - ☒ C. 16.0 cm
 - ☒ D. 17.0 cm

Q.92 Dev and Tej started a business by investing amounts of ₹2,450 and ₹1,960, respectively. If Dev's share in the profit earned by them is ₹270, what is the total profit (in ₹) earned by them together?

- Ans**
- ☒ A. 486
 - ☒ B. 526
 - ☒ C. 342
 - ☒ D. 443

Q.93 A dealer buys two articles X and Y for ₹500 each. He marks each of them at the same price. He sells X by giving two successive discounts of 31% and 25% and still earns ₹328 as profit. If he sells Y at a single discount of 61%, then what is the profit percentage on Y?

- Ans**
- ☐ A. 23%
 - ☐ B. 23.8%
 - ☐ C. 24%
 - ☒ D. 24.8%

Q.94 Refer to the following number-symbol series and answer the question that follows. Counting is to be done from left to right only. (Note: All numbers are single-digit numbers only)

(Left) 7 3 / 3 ^ \$ 2 < * \$ \ 8 ? + 3 @ 8 ^ @ \ < (Right)

How many such symbols are there each of which is immediately preceded by another symbol and also immediately followed by a number?

- Ans**
- ☐ A. 2
 - ☒ B. 3
 - ☐ C. 4
 - ☐ D. 1

Q.95 An arithmetic progression has 42 as its first term and 55 as its last term, with a total of 10 terms. What is the sum of these 10 terms?

- Ans**
- ☐ A. 484
 - ☐ B. 488
 - ☐ C. 487
 - ☒ D. 485

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 96

Q.96 Identify the central theme of the passage.

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 97

Q.97 Which of the following facts is explicitly stated in the passage?

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 98

Q.98 Which of the following best reflects the connection to real-life business situations?

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 99

Q.99 Identify the tone of the passage.

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 100

Q.100 Identify the antonym of the word 'adapt'.



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - 08/2025 - CEN - 04/2025
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Center Name	iON Digital Zone iDZ Sirsakala Bhilai-3
Test Date	11/02/2026
Test Time	1:00 PM - 3:00 PM
Subject	RRB SECTION CONTROLLER CBT 1

*** Note**

Correct Answer will carry 1 mark per Question.

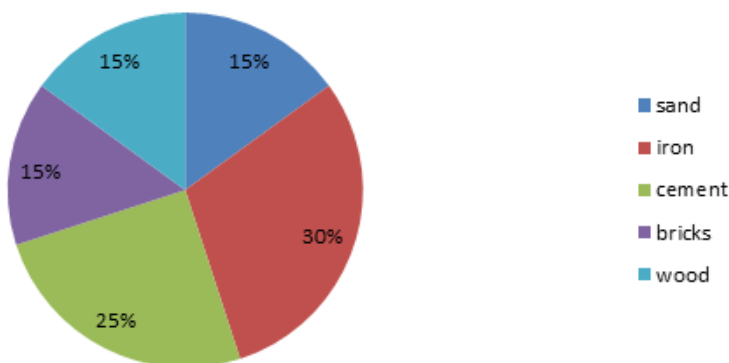
Incorrect Answer will carry 1/3 Negative mark per Question.

- Options shown in green color with a tick icon are correct.
- Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

- Q.1** The following pie chart shows the details of material used in the construction of a building. The total cost of construction is ₹25,00,000. Study the chart and answer the question that follows.

Details of Material used in the construction of a building



Calculate the expenditure on iron, bricks and cement used in the construction of the building.

- Ans**
- ☒ A. ₹14,50,000
 - ☒ B. ₹12,50,000
 - ☒ C. ₹17,50,000
 - ☒ D. ₹15,50,000

- Q.2** If a man bought 8 board pins for ₹4, and sold them at 5 board pins for ₹9, then the gain percentage is:

- Ans**
- ☒ A. 270%
 - ☒ B. 280%
 - ☒ C. 260%
 - ☒ D. 250%

Q.3 A mobile phone is marked at ₹88,500. After applying successive discounts of 8%, 5% and 2%, what will be its final selling price (in ₹), rounded to the nearest integer?

- Ans**
- ☐ A. 76,781
 - ☒ B. 75,802
 - ☐ C. 74,098
 - ☐ D. 72,345

Q.4 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$304 - 17 \div 11 + 253 \times 11 = ?$$

- Ans**
- ☐ A. 475
 - ☐ B. 470
 - ☒ C. 468
 - ☐ D. 466

Q.5 A worker earns ₹1,200 for working 8 hours. At the same rate, how much will he earn for working 12 hours?

- Ans**
- ☐ A. ₹2,200
 - ☐ B. ₹2,000
 - ☐ C. ₹1,400
 - ☒ D. ₹1,800

Q.6 A man adds water to milk to gain profit. He mixes water with milk worth ₹70/litre to get a final mixture costing ₹55/litre. What is the ratio of milk to water in the mixture?

- Ans**
- ☐ A. 12 : 5
 - ☐ B. 9 : 4
 - ☒ C. 11 : 3
 - ☐ D. 8 : 3

Q.7 Three numbers are in the ratio 1:2:3. If their LCM is 198, find their HCF.

- Ans**
- ☐ A. 18
 - ☒ B. 33
 - ☐ C. 9
 - ☐ D. 11

Q.8 In an A.P., the common difference is -7 and the first term is 31. Find the 10th term.

- Ans**
- ☒ A. -32
 - ☐ B. -29
 - ☐ C. -33
 - ☐ D. -30

- Q.9** Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.

In row 1 – S, T, U and V are seated and all of them are facing south.

In row 2 – C, D, E and F are seated and all of them are facing north.

Thus each person faces another person from the other row.

T sits third to the right of S. The one facing F is an immediate neighbour of S. The one facing V is an immediate neighbour of F. The one facing T is an immediate neighbour of D. C sits at some place to the left of E.

Who amongst the following faces D?

- Ans**
- ☐ A. U
 - ☐ B. T
 - ☐ C. S
 - ☒ D. V

- Q.10** A hemispherical dome of radius 14 m is to be painted both inside and outside. If the cost of painting is ₹45 per m^2 and a platform costing ₹1,200 is needed for the work, find the total cost. (Use $\pi = \frac{22}{7}$)

- Ans**
- ☐ A. ₹1,14,500
 - ☒ B. ₹1,12,080
 - ☐ C. ₹1,10,200
 - ☐ D. ₹1,08,500

- Q.11** The sum of the present ages of Lokesh and Taresh is 28 years. After 2 years from now, Lokesh's age will be three times that of Taresh. Lokesh's present age (in years) is:

- Ans**
- ☒ A. 22
 - ☐ B. 16
 - ☐ C. 24
 - ☐ D. 19

- Q.12** The 7-digit number 23A908B is divisible by 3. What is the maximum value of (A + B)?

- Ans**
- ☐ A. 13
 - ☐ B. 14
 - ☐ C. 16
 - ☒ D. 17

- Q.13** A circular ground has a radius of 42 meters. A running track surrounds this ground, and it is 7 meters wide. Find the outer perimeter of the running track. (Use $\pi = \frac{22}{7}$)

- Ans**
- ☐ A. 254 meters
 - ☐ B. 224 meters
 - ☐ C. 154 meters
 - ☒ D. 308 meters

Q.14 Five car accidents occurred in a week. What is the probability that they all occurred on the same day?

Ans

☐ A. $\frac{1}{5^7}$

☒ B. $\frac{1}{7^4}$

☐ C. $\frac{1}{5^4}$

☐ D. $\frac{1}{7^5}$

Q.15 Each of the digits in the number 2597836 is arranged in ascending order from left to right. What will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

Ans

☐ A. 7

☐ B. 13

☐ C. 9

☒ D. 11

Q.16 The perimeter of an isosceles triangle is 36 cm and the altitude to its base is 12 cm. Find the area of the triangle (in cm^2).

Ans

☒ A. 60

☐ B. 120

☐ C. 140

☐ D. 90

Q.17 Find the sum of all prime numbers greater than 2 but less than 30.

Ans

☐ A. 129

☒ B. 127

☐ C. 178

☐ D. 136

Comprehension:

Read the given passage and answer questions that follow.

The Ajanta and Ellora caves, nestled in the rugged hills of Maharashtra, stand as monumental testaments to India's artistic and spiritual legacy. Carved meticulously between the 2nd century BCE and the 10th century CE, these rock-cut sanctuaries embody the seamless blend of devotion, architecture, and aesthetic mastery. The Ajanta caves, primarily Buddhist, depict the evolution of Buddhist thought through exquisite murals, sculptures, and chaitya halls that narrate the Jataka tales—the stories of the Buddha's previous lives. Their walls come alive with vibrant frescoes that capture both divine and human emotions, executed with natural pigments that have withstood centuries. Ellora, located a short distance away, is celebrated for its religious plurality—housing Buddhist, Hindu, and Jain monuments within a single complex. The crowning jewel, the Kailasa Temple (Cave 16), carved from a single basalt rock, is a marvel of engineering and imagination. Dedicated to Lord Shiva, it replicates Mount Kailasa and symbolizes the cosmic centre of creation. The intricate carvings, soaring pillars, and multi-tiered structures reflect a synthesis of art and devotion unparalleled in world architecture. Together, Ajanta and Ellora transcend time, offering insight into India's cultural harmony and artistic brilliance. They are not merely monuments but living galleries—chiselled by faith, guided by precision, and preserved as echoes of an era where art was prayer and stone became scripture.

SubQuestion No : 18

Q.18 According to the passage, which feature of the Ajanta caves is directly responsible for conveying the evolution of Buddhist thought?

Comprehension:

Read the given passage and answer questions that follow.

The Ajanta and Ellora caves, nestled in the rugged hills of Maharashtra, stand as monumental testaments to India's artistic and spiritual legacy. Carved meticulously between the 2nd century BCE and the 10th century CE, these rock-cut sanctuaries embody the seamless blend of devotion, architecture, and aesthetic mastery. The Ajanta caves, primarily Buddhist, depict the evolution of Buddhist thought through exquisite murals, sculptures, and chaitya halls that narrate the Jataka tales—the stories of the Buddha's previous lives. Their walls come alive with vibrant frescoes that capture both divine and human emotions, executed with natural pigments that have withstood centuries. Ellora, located a short distance away, is celebrated for its religious plurality—housing Buddhist, Hindu, and Jain monuments within a single complex. The crowning jewel, the Kailasa Temple (Cave 16), carved from a single basalt rock, is a marvel of engineering and imagination. Dedicated to Lord Shiva, it replicates Mount Kailasa and symbolizes the cosmic centre of creation. The intricate carvings, soaring pillars, and multi-tiered structures reflect a synthesis of art and devotion unparalleled in world architecture. Together, Ajanta and Ellora transcend time, offering insight into India's cultural harmony and artistic brilliance. They are not merely monuments but living galleries—chiselled by faith, guided by precision, and preserved as echoes of an era where art was prayer and stone became scripture.

SubQuestion No : 19

Q.19 What specific aspect of the Kailasa Temple is presented as evidence of its architectural and symbolic ambition?

Comprehension:

Read the given passage and answer questions that follow.

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SubQuestion No : 20

Q.20 The author's description of Ajanta and Ellora as "living galleries" most plausibly implies that these sites:

Comprehension:

Read the given passage and answer questions that follow.

The Ajanta and Ellora caves, nestled in the rugged hills of Maharashtra, stand as monumental testaments to India's artistic and spiritual legacy. Carved meticulously between the 2nd century BCE and the 10th century CE, these rock-cut sanctuaries embody the seamless blend of devotion, architecture, and aesthetic mastery. The Ajanta caves, primarily Buddhist, depict the evolution of Buddhist thought through exquisite murals, sculptures, and chaitya halls that narrate the Jataka tales—the stories of the Buddha's previous lives. Their walls come alive with vibrant frescoes that capture both divine and human emotions, executed with natural pigments that have withstood centuries. Ellora, located a short distance away, is celebrated for its religious plurality—housing Buddhist, Hindu, and Jain monuments within a single complex. The crowning jewel, the Kailasa Temple (Cave 16), carved from a single basalt rock, is a marvel of engineering and imagination. Dedicated to Lord Shiva, it replicates Mount Kailasa and symbolizes the cosmic centre of creation. The intricate carvings, soaring pillars, and multi-tiered structures reflect a synthesis of art and devotion unparalleled in world architecture. Together, Ajanta and Ellora transcend time, offering insight into India's cultural harmony and artistic brilliance. They are not merely monuments but living galleries—chiselled by faith, guided by precision, and preserved as echoes of an era where art was prayer and stone became scripture.

SubQuestion No : 21

Q.21 From the passage's treatment of Ellora's religious plurality, one may reasonably infer that the creators of the complex endorsed:

Comprehension:

Read the given passage and answer questions that follow.

The Ajanta and Ellora caves, nestled in the rugged hills of Maharashtra, stand as monumental testaments to India's artistic and spiritual legacy. Carved meticulously between the 2nd century BCE and the 10th century CE, these rock-cut sanctuaries embody the seamless blend of devotion, architecture, and aesthetic mastery. The Ajanta caves, primarily Buddhist, depict the evolution of Buddhist thought through exquisite murals, sculptures, and chaitya halls that narrate the Jataka tales—the stories of the Buddha's previous lives. Their walls come alive with vibrant frescoes that capture both divine and human emotions, executed with natural pigments that have withstood centuries. Ellora, located a short distance away, is celebrated for its religious plurality—housing Buddhist, Hindu, and Jain monuments within a single complex. The crowning jewel, the Kailasa Temple (Cave 16), carved from a single basalt rock, is a marvel of engineering and imagination. Dedicated to Lord Shiva, it replicates Mount Kailasa and symbolizes the cosmic centre of creation. The intricate carvings, soaring pillars, and multi-tiered structures reflect a synthesis of art and devotion unparalleled in world architecture. Together, Ajanta and Ellora transcend time, offering insight into India's cultural harmony and artistic brilliance. They are not merely monuments but living galleries—chiselled by faith, guided by precision, and preserved as echoes of an era where art was prayer and stone became scripture.

SubQuestion No : 22

Q.22 The frescoes of Ajanta are described as "vibrant". Which option best conveys the **antonym** of this term in the given context?

Q.23 Find mode for the following distribution.

Class interval	Frequency
0-80	8
8-16	7
16-24	16
24-32	24
32-40	15
40-48	7

(Round off your answer to two decimal places)

- Ans ☒ A. 24.86
☒ B. 27.76
☒ C. 23.56
☒ D. 29.16

Q.24 Refer to the following number-symbol series and answer the question that follows. Counting is to be done from left to right only. (Note: All numbers are single-digit numbers only)

(Left) 2 8 # \$ 2 4 @ 5 7 5 9 @ 9 \ > & 7 9 @ > * ^ & (Right)

How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans ☒ A. Zero
☒ B. Three
☒ C. Two
☒ D. One

Q.25 Two fair six-sided dice which have numbers from 1 to 6 on their faces are rolled. What is the probability that the sum of the numbers rolled is greater than 8?

- Ans ☒ A. $\frac{1}{3}$
☒ B. $\frac{4}{9}$
☒ C. $\frac{5}{18}$
☒ D. $\frac{1}{5}$

Q.26 Study the line graph and answer the question that follows.

The given line graph shows the temperature in $^{\circ}\text{C}$ in a city over six days.



What is the difference between the maximum and minimum temperatures recorded?

- Ans**
- ☒ A. 6°C
 - ☒ B. 5°C
 - ☒ C. 4°C
 - ☒ D. 7°C

Q.27 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements:

All vegetables are leeches.
All fruits are leeches.

Conclusions:

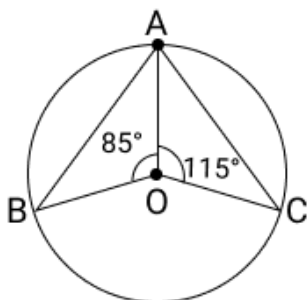
(I): Some vegetables are fruits.
(II): Some leeches are fruits.

- Ans**
- ☒ A. Neither conclusion (I) nor (II) follows
 - ☒ B. Only conclusion (II) follows
 - ☒ C. Only conclusion (I) follows
 - ☒ D. Both conclusions (I) and (II) follow

Q.28 In a certain code language, 'came after me' is coded as 'bg sp zh' and 'who came first' is coded as 'km cy sp'. How is 'came' coded in the given language?

- Ans**
- ☒ A. sp
 - ☒ B. bg
 - ☒ C. cy
 - ☒ D. zh

Q.29 In the given figure, O is the centre of the circle. Find $\angle BAC$.



- Ans ☐ A. 84°
☐ B. 72°
☒ C. 80°
☐ D. 65°

Q.30 In what ratio must a grocer mix two varieties of rice worth ₹66 per kg and ₹108 per kg, so that if he sells the mixture at ₹143 per kg, he may gain 43%?

- Ans ☐ A. 1:3
☒ B. 4:17
☐ C. 3:16
☐ D. 7:11

Q.31 Find the value of m for which it satisfies

$$\left(\frac{17}{2}\right)^4 \times \left(\frac{2}{17}\right)^6 \times \left(\frac{17}{2}\right)^3 = \left(\frac{2}{17}\right)^{4m+16}$$

- Ans ☐ A. $-\frac{15}{4}$
☐ B. $-\frac{9}{4}$
☐ C. $-\frac{13}{4}$
☒ D. $-\frac{17}{4}$

Q.32 The 11th term of the A.P. whose first and second terms are 32 and 9, is:

- Ans ☐ A. -201
☐ B. -197
☒ C. -198
☐ D. -195

Q.33 A and B started a business with investments in the ratio 5 : 6. After 6 months, A increased his investment by 60% and B decreased his investment by 25%. At the end of the year, the total profit was ₹28,153. Find A's share in the profit.

- Ans ☐ A. ₹21,616
☐ B. ₹10,616
☐ C. ₹13,616
☒ D. ₹15,574

Q.34 Consider the data set: 4, 8, 6, 5, 3, 9. Find the standard deviation (correct up to two decimal places).

- Ans**
- ☐ A. 2.31
 - ☐ B. 1.83
 - ☐ C. 1.76
 - ☒ D. 2.11

Q.35 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

TVT-PRP
BDB-XZX

- Ans**
- ☐ A. OQO-JMJ
 - ☒ B. OQO-KMK
 - ☐ C. OPM-KMK
 - ☐ D. OPM-JLJ

Q.36 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☐ A. LICA
 - ☐ B. CZTR
 - ☐ C. VSMK
 - ☒ D. RPJG

Q.37 By how much is 30% of 65 greater than 35% of 40?

- Ans**
- ☐ A. 0.5
 - ☐ B. 2.5
 - ☐ C. 7.5
 - ☒ D. 5.5

Q.38 The curved surface area and the total surface area of a cylinder are in the ratio 1:16. If the total surface area of the right cylinder is 6028.8 cm^2 , then its volume (in cm^3) is:

(Take $\pi = 3.14$)

- Ans**
- ☒ A. 5652
 - ☐ B. 5648
 - ☐ C. 5624
 - ☐ D. 5656

Q.39 AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and $\angle PEB = 65^\circ$. G is a point between AB and CD such that $\angle BEG = 22^\circ$ and $\angle GFE = 12^\circ$. What is the measure of $\angle EGF$?

- Ans**
- ☐ A. 73°
 - ☒ B. 75°
 - ☐ C. 63°
 - ☐ D. 88°

Q.40 Each of G, H, I, J, N, O and P has a flight on a different day of a week, starting from Monday and ending on Sunday of the same week. N has a flight immediately before I. P has a flight on one of the days after G. Only three people have flights before O. H has a flight immediately after I. Only one person has a flight after J. How many people have flights between P and H?

- Ans**
- ☐ A. One
 - ☐ B. Two
 - ☐ C. Four
 - ☒ D. Three

Q.41 Select the letter-cluster that DOES NOT belong to the following series.

ARN XVK UZH SDF OHB LLY

- Ans**
- ☒ A. SDF
 - ☐ B. XVK
 - ☐ C. OHB
 - ☐ D. LLY

Q.42 The circumference of the base of a cylindrical vessel is 440 cm and its height is 25 cm. How many litres of water can it hold?

- Ans**
- ☒ A. 385
 - ☐ B. 424
 - ☐ C. 399
 - ☐ D. 349

Q.43 What should come in place of the question mark (?) in the given series?

212 213 217 226 242 ?

- Ans**
- ☐ A. 265
 - ☐ B. 266
 - ☒ C. 267
 - ☐ D. 264

Q.44 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☐ A. QU - OS
 - ☒ B. JK - JI
 - ☐ C. PT - NR
 - ☐ D. JN - HL

Q.45 A train P going at the speed of 33 km/h completely passes train Q of length 452 m, going in the same direction on parallel tracks, at 24 km/h, in 9.5 minutes. How much time (in seconds) will P take to completely cross train R of length 482 m, going at 21 km/h in the opposite direction?

- Ans**
- ☐ A. 96
 - ☐ B. 112
 - ☐ C. 83
 - ☒ D. 97

Q.46 The position(s) of how many letters will remain unchanged if each letter in the word JOURNAL is arranged in the English alphabetical order?

- Ans**
- ☐ A. 1
 - ☐ B. 3
 - ☒ C. 0
 - ☐ D. 2

Q.47 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: HKO :: FIM : %

- Ans**
- ☐ A. # = KNJ, % = CJK
 - ☒ B. # = KNR, % = CFJ
 - ☐ C. # = POR, % = CNJ
 - ☐ D. # = KLJ, % = CKL

Q.48 The simplified value of $81 - [54 - (56 \div 8 - (18 - 32 \div 4) \div 4)]$ is:

- Ans**
- ☒ A. $\frac{63}{2}$
 - ☐ B. $\frac{71}{2}$
 - ☐ C. $\frac{73}{2}$
 - ☐ D. $\frac{65}{2}$

Q.49 In a room with dimensions $20\text{m} \times 15\text{m} \times 12\text{m}$ has a rectangular window of dimension $1\text{m} \times 2\text{m}$ through which fresh air flows into the room. What should be the airflow rate (in m^3/min) through the window per unit area so that one-fourth of the air in the room would change every hour?

- Ans**
- ☐ A. 9
 - ☐ B. 4
 - ☒ C. 7.5
 - ☐ D. 2.5

Q.50 If x is added to the numbers 2, 8, 1, 5, the resulting numbers, in order, are in proportion. Find the mean proportion of the terms $2x + 1$ and $5x - 2$.

- Ans**
- ☐ A. 5
 - ☐ B. 1
 - ☐ C. 7
 - ☒ D. 3

Q.51 A right circular cone and a right circular cylinder have equal base and equal height. If the radius of the base and the height are in the ratio 5 : 12, then the ratio of the total surface area of the cylinder to that of the cone is:

- Ans**
- ☐ A. 16 : 5
 - ☐ B. 0.5875
 - ☒ C. 17 : 9
 - ☐ D. 12 : 4

Q.52 The prices of each article of types P, Q, and R are ₹280, ₹180, and ₹110, respectively. Shanu buys articles of each type in the ratio 3 : 2 : 5 for a total of ₹7000. How many articles of type Q did he purchase?

- Ans** ☒ A. 8
☒ B. 6
☒ C. 10
☒ D. 4

Q.53 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?
 $16 \div 2 - 48 \times 6 + 15 = ?$

- Ans** ☒ A. 25
☒ B. 28
☒ C. 20
☒ D. 17

Q.54 If each of the digits in the number cluster 5389436 is arranged in ascending order from left to right, the position of how many digits will remain unchanged as compared to that in the original number?

- Ans** ☒ A. Two
☒ B. One
☒ C. Three
☒ D. Four

Q.55 The simplified value of $\frac{70}{33} \times (95 + 40) + 24$ is

- Ans** ☒ A. $\frac{3406}{11}$
☒ B. $\frac{3405}{11}$
☒ C. $\frac{3414}{11}$
☒ D. $\frac{3422}{11}$

Comprehension:

Read the given passage carefully and answer the questions that follow.

Waste is among the most pressing environmental issues in India. As the world's second-most populous nation with nearly 1.4 billion people, India inevitably generates a staggering 277 million tonnes of Municipal Solid Waste (MSW) annually. Experts estimate that by 2030, MSW is likely to reach 387.8 million tonnes and will more than double the current value by 2050. India's rapid urbanisation makes waste management extremely challenging. Currently, about 5% of the total collected waste is recycled, 18% is composted, and the remaining is dumped at landfill sites.

The plastic crisis in India is one of the worst on the planet. According to the Central Pollution Control Board (CPCB), India currently produces more than 25,000 tonnes of plastic waste every day on average, which accounts for almost 6% of the total solid waste generated in the country. India stands second among the top 20 countries having a high proportion of riverine plastic emissions, both nationally and globally. The Indus, Brahmaputra, and Ganges rivers are known as the 'highways of plastic flows' as they carry and drain most of the plastic debris in the country. Together with ten other topmost polluted rivers, they leak nearly 90% of plastics into the sea globally.

To tackle this issue, in 2020, the government announced that it would ban the manufacture, sale, distribution, and use of single-use plastics from July 1, 2022, onwards.

SubQuestion No : 56

Q.56 Which of the following most accurately states the main idea of the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

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SubQuestion No : 57

Q.57 Which is the best description of the tone of the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

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SubQuestion No : 58

Q.58 What is the synonym of the word 'dumped' from the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

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SubQuestion No : 59

Q.59 Which of the following represents the structure of the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

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SubQuestion No : 60

Q.60 What is the ANTONYM of the word 'challenging'?

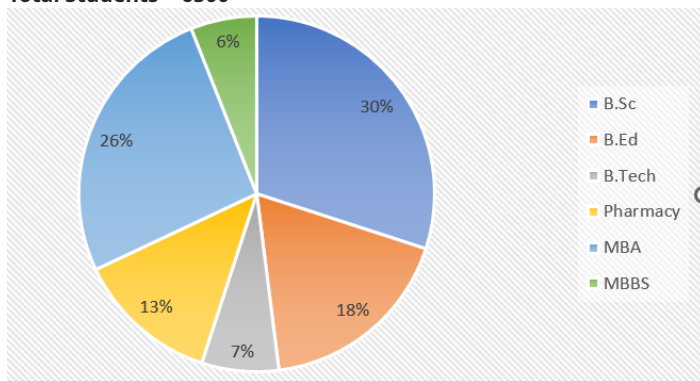
Q.61 A dealer buys two articles X and Y for ₹8000 each. He marks each of them at the same price. He sells X by giving two successive discounts of 20% and 35% and still earns ₹616 as profit. If he sells Y at a single discount of 48%, then what is the profit percentage on Y?

- Ans** ☒ A. 7.7%
☒ B. 6%
☒ C. 7%
☒ D. 6.7%

Q.62 Study the following pie chart carefully to answer the question that follows.

The following pie chart shows the percentage-wise distribution of students enrolled in a particular university.

Total Students = 6500



What is half of the difference between the number of students in MBA and MBBS?

- Ans** ☒ A. 715
☒ B. 650
☒ C. 765
☒ D. 635

Q.63 In a triangle PQR, $QE \perp PR$, $RD \perp PQ$. RD and QE intersect each other at O. If $\angle QMR = 138^\circ$, then which of the following statements is true?

- Ans** ☒ A. $\angle ROQ$ has measurement of 116°
☒ B. $\angle DPE$ has measurement of 84°
☒ C. $\angle EOD$ is a right angle
☒ D. $\angle PQR + \angle PRQ = 120^\circ$

Q.64 F is the sister of G. G is the brother of S. T is the father of V. V is the son of S. How is F related to T?

- Ans**
- ☒ A. Sister
 - ☒ B. Father's sister
 - ☒ C. Wife's sister
 - ☒ D. Wife's mother

Q.65 Find the class interval corresponding to the class mark $x_i = 27$, where the lower limit of the first continuous class interval is 7.

x_i	f_i
11	3
19	7
27	11
35	5
43	3

- Ans**
- ☒ A. 22 - 32
 - ☒ B. 24 - 30
 - ☒ C. 23 - 31
 - ☒ D. 21 - 33

Q.66 The following data gives the information on the observed lifetime (in hours) of 225 electronic components.

Lifetime (in hours)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
Number of electronic components	11	36	52	61	37	28

What is the modal lifetime (in hours, rounded to 2 decimal places) of the components?

- Ans**
- ☒ A. 33.72
 - ☒ B. 32.33
 - ☒ C. 37.32
 - ☒ D. 32.73

Q.67 Two trains, 280 meters and 290 meters in length, are running in opposite directions. The first train runs at the rate of 60 km/h and the second train at the rate of 48 km/h. How long will they take to cross each other?

- Ans**
- ☒ A. 17 seconds
 - ☒ B. 12 seconds
 - ☒ C. 25 seconds
 - ☒ D. 19 seconds

Q.68 Select the triad that follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

DK-GM-IL
 GN-JP-LO

- Ans**
- ☒ A. IQ-MT-PR
 - ☒ B. JQ-MS-PR
 - ☒ C. IQ-MS-PR
 - ☒ D. JQ-MS-OR

Q.69

The simplified value of $\frac{(63^{10} \times 2^{13} \times 28^{19})}{(63^9 \times 2^{12} \times 28^{18})}$ is

- Ans ☐ A. 3527
☐ B. 3530
☐ C. 3536
☒ D. 3528

Q.70 A and B can do a work in 2 days. If A alone can do it in 4 days, then in how many days can B alone do 70-times of the same work?

- Ans ☐ A. 281
☐ B. 260
☐ C. 272
☒ D. 280

Q.71 In what ratio must a grocer mix two varieties of wheat worth ₹68 per kg and ₹128 per kg, so that if he sells the mixture at ₹138 per kg, he may gain 38%?

- Ans ☐ A. 17:13
☒ B. 7:8
☐ C. 1:1
☐ D. 15:17

Q.72 The following frequency distribution represents the monthly electricity consumption of 60 consumers in a locality.

Monthly Consumption (in units)	Number of consumers
50 - 65	5
65 - 80	8
80 - 95	12
95 - 110	18
110 - 125	10
125 - 140	7

What is the median of the data (correct to 2 decimal places)?

- Ans ☐ A. 81.19
☐ B. 73.27
☐ C. 85.13
☒ D. 99.17

Q.73 The following table shows the wages (in ₹) of a group of workers.

	20-30	30-40	40-50	50-60	60-70
Wages (in ₹)					
	25	12	15	13	5
Number of Workers					

Find the median wage. (Round your answer to the nearest paise.)

- Ans ☐ A. 34.25
☒ B. 38.33
☐ C. 39.25
☐ D. 36.75

Q.74 A, B, C, D, E, F, G and H are sitting around a square table. Some of them are sitting at the corners, while some are sitting at the exact centres of the sides. All of them are facing the centre. Only three people are sitting between B and F when counted from the left of B. D is sitting to the immediate right of F. Only three people are sitting between D and E when counted from the left of D. E is not sitting at any of the corners. Only two people are sitting between G and H when counted from the left of G. A is sitting to the immediate right of G. G is not an immediate neighbour of E. How many people are sitting between C and F, when counted from the right of C?

- Ans**
- ☒ A. Two
 - ☒ B. One
 - ☒ C. Zero
 - ☒ D. Three

Q.75 Sonali has a hemispherical pot having a radius of 21 cm. How much volume of water can it hold?
(Use $\pi = \frac{22}{7}$)

- Ans**
- ☒ A. 19.404
 - ☒ B. 38.808
 - ☒ C. 28.702
 - ☒ D. 9.702

Q.76 The 7-digit number 34A690B is divisible by 3. What is the maximum value of (A + B)?

- Ans**
- ☒ A. 18
 - ☒ B. 16
 - ☒ C. 14
 - ☒ D. 17

Q.77 The average of 7 numbers is 57. If each number is increased by 7, what will the new average be?

- Ans**
- ☒ A. 8
 - ☒ B. 64
 - ☒ C. 71
 - ☒ D. 57

Q.78 The average of the numbers 6.5, 10.6, 20.3 and a is 18. The value of a is:

- Ans**
- ☒ A. 34.6
 - ☒ B. 35.6
 - ☒ C. 33.6
 - ☒ D. 36.6

Q.79 A can complete a piece of work in 21 days and B can complete it in 11 days. If they work on alternate days, starting with B on the first day, then in how many days will the work be completed?

- Ans**
- ☒ A. 14
 - ☒ B. $15\frac{1}{3}$
 - ☒ C. $14\frac{1}{3}$
 - ☒ D. 15

Q.80 A large cuboid-shaped container has the following dimensions: length = 15 meters, width = 8 meters, and height = 6 meters. A cube-shaped object with an edge length of 4 meters is placed inside the container. How many such cubes can be placed inside the container without any part sticking out?

- Ans** ☒ A. 6
☐ B. 10
☐ C. 8
☐ D. 12

Q.81 The sum of two positive numbers is 59 and their product is 564. The positive difference between them is:

- Ans** ☒ A. 35
☐ B. 55
☐ C. 34
☐ D. 47

Q.82 q is the mean proportional of p and r . q^2 is the mean proportional of p^2r and r^3 . Find the value of q if $p = 169$, where p, q, r are natural numbers.

- Ans** ☐ A. 52
☐ B. 26
☐ C. 45
☒ D. 13

Q.83 A person saves 90% of his income. If his expenditure is ₹600, then his income (in ₹) is:

- Ans** ☒ A. 6000
☐ B. 6080
☐ C. 6040
☐ D. 5400

Q.84 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

ELS BIP YFM VCJ SZG PVD

- Ans** ☐ A. YFM
☐ B. SZG
☒ C. PVD
☐ D. VCJ

Q.85 The mean and mode of a data set are 52 and 55, respectively. Find the median of the data set.

- Ans** ☐ A. 50
☒ B. 53
☐ C. 48
☐ D. 51

Q.86 A data set consists of six test scores: 18, 22, 24, 28, 30, and 35. Find the median of this data set.

- Ans** ☐ A. 32
☐ B. 28
☒ C. 26
☐ D. 24

Q.87 The ratio of the heights of a right circular cone and a right circular cylinder is 6 : 5 and the ratio of the radii of their bases is 4 : 3. If the volume of the cylinder is 630 cm^3 , then the volume (in cm^3) of the cone is:

- Ans**
- ☒ A. 444
 - ☒ B. 441
 - ☒ C. 448
 - ☒ D. 449

Q.88 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☒ A. KMQ
 - ☒ B. PRV
 - ☒ C. NPT
 - ☒ D. GIL

Q.89 Six boxes A, B, C, D, E, and F are kept one over the other but not necessarily in the same order. D is kept third from the bottom. Only one box is kept between D and F. A is kept immediately below B. C is kept immediately below D. E is kept immediately above B. Which box is third from the top?

- Ans**
- ☒ A. E
 - ☒ B. B
 - ☒ C. A
 - ☒ D. F

Comprehension:

Read the given passage and answer questions that follow.

Tuesday, September 11, 2001, began like any other late-summer morning in the eastern United States — mild, sunlit, and calm. The sky over New York City was an unbroken blue, reflecting off the glass façades of its skyscrapers. Across the country, millions stirred into their daily rhythm — parents preparing children for school, commuters boarding trains, and office workers hurrying toward another routine day. In Lower Manhattan, thousands made their way into the Twin Towers, the proud centerpiece of the World Trade Center complex, unaware that history was quietly converging upon them.

In Arlington, Virginia, the Pentagon's corridors filled with the measured pace of military precision, while across the Potomac River, Congress reconvened in session, its agenda focused on domestic policy and budgetary matters. At the White House, tourists gathered expectantly for their morning tours, cameras ready to capture an ordinary day in the capital.

Farther south, in Sarasota, Florida, President George W Bush began his day with an early jog before visiting a local school to discuss education reform. Air traffic across the nation operated under perfect conditions — clear skies and steady winds, ideal for flying. Among the countless travellers navigating airports that morning were two men, Mohamed Atta and Abdul Aziz al-Omari, who arrived quietly at Portland International Jetport in Maine.

No one yet knew that within hours, this serene morning would fracture into one of the darkest days in modern history — when calm skies became witnesses to unimaginable tragedy.

SubQuestion No : 90

Q.90 According to the passage, what was the primary focus of Congress on the morning of September 11, 2001?

Comprehension:

Read the given passage and answer questions that follow.

Tuesday, September 11, 2001, began like any other late-summer morning in the eastern United States — mild, sunlit, and calm. The sky over New York City was an unbroken blue, reflecting off the glass façades of its skyscrapers. Across the country, millions stirred into their daily rhythm — parents preparing children for school, commuters boarding trains, and office workers hurrying toward another routine day. In Lower Manhattan, thousands made their way into the Twin Towers, the proud centerpiece of the World Trade Center complex, unaware that history was quietly converging upon them.

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SubQuestion No : 91

Q.91 In which sequence of locations does the passage most clearly trace the morning's unfolding across the United States?

Comprehension:

Read the given passage and answer questions that follow.

Tuesday, September 11, 2001, began like any other late-summer morning in the eastern United States — mild, sunlit, and calm. The sky over New York City was an unbroken blue, reflecting off the glass façades of its skyscrapers. Across the country, millions stirred into their daily rhythm — parents preparing children for school, commuters boarding trains, and office workers hurrying toward another routine day. In Lower Manhattan, thousands made their way into the Twin Towers, the proud centerpiece of the World Trade Center complex, unaware that history was quietly converging upon them.

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No one yet knew that within hours, this serene morning would fracture into one of the darkest days in modern history — when calm skies became witnesses to unimaginable tragedy.

SubQuestion No : 92

Q.92 What can be inferred about the narrative perspective from the way the events are presented?

Comprehension:

Read the given passage and answer questions that follow.

Tuesday, September 11, 2001, began like any other late-summer morning in the eastern United States — mild, sunlit, and calm. The sky over New York City was an unbroken blue, reflecting off the glass façades of its skyscrapers. Across the country, millions stirred into their daily rhythm — parents preparing children for school, commuters boarding trains, and office workers hurrying toward another routine day. In Lower Manhattan, thousands made their way into the Twin Towers, the proud centerpiece of the World Trade Center complex, unaware that history was quietly converging upon them.

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No one yet knew that within hours, this serene morning would fracture into one of the darkest days in modern history — when calm skies became witnesses to unimaginable tragedy.

SubQuestion No : 93

Q.93 What main idea does the passage convey by showing an ordinary morning before the attacks?

Comprehension:

Read the given passage and answer questions that follow.

Tuesday, September 11, 2001, began like any other late-summer morning in the eastern United States — mild, sunlit, and calm. The sky over New York City was an unbroken blue, reflecting off the glass façades of its skyscrapers. Across the country, millions stirred into their daily rhythm — parents preparing children for school, commuters boarding trains, and office workers hurrying toward another routine day. In Lower Manhattan, thousands made their way into the Twin Towers, the proud centerpiece of the World Trade Center complex, unaware that history was quietly converging upon them.

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No one yet knew that within hours, this serene morning would fracture into one of the darkest days in modern history — when calm skies became witnesses to unimaginable tragedy.

SubQuestion No : 94

Q.94 In the context of the phrase 'an ordinary day in the capital', which term expresses the opposite meaning of 'ordinary'?

Q.95 Saeed allows two successive discounts of 30% and 10% on the marked price of a pen, which is equal to a single discount of ₹592. Then how much profit (in %) will Saeed get on that pen, if the cost price is ₹900?

- Ans**
- ☒ A. 10%
 - ☒ B. 13%
 - ☒ C. 12%
 - ☒ D. 11%

Q.96 Each of G, H, I, J, N, O and P has a flight on a different day of a week starting from Monday and ending on Sunday of the same week. Only three people have a flight between H and G. Only one person has a flight between P and N. O has a flight immediately the day before I. Only two people have a flight before H. J doesn't have a flight on Friday. P has a flight immediately after J. How many people have a flight before J?

- Ans**
- ☒ A. Two
 - ☒ B. None
 - ☒ C. Three
 - ☒ D. One

Q.97 Refer to the following number series and answer the question that follows. Counting is to be done from left to right only. (All numbers are single-digit numbers only.)

(Left) 6 7 5 1 7 1 2 7 6 4 3 9 4 5 3 2 3 5 1 6 8 4 6 2 4 5 8 (Right)

How many such even numbers are there that are immediately preceded by an odd number and also immediately followed by an odd number?

- Ans**
- ☒ A. Five
 - ☒ B. Four
 - ☒ C. Three
 - ☒ D. Two

Q.98 A man buys 13 identical articles for a total of ₹15. If he sells each of them for ₹1.6, then what is his profit percentage? (Round off your answer to two decimal places.)

- Ans**
- ☒ A. 28.87%
 - ☒ B. 39.67%
 - ☒ C. 38.67%
 - ☒ D. 27.87%

Q.99 The H.C.F. and the L.C.M. of two numbers are 18 and 540, respectively. If one of the numbers is 90, then find the other number.

- Ans**
- ☒ A. 144
 - ☒ B. 126
 - ☒ C. 72
 - ☒ D. 108

Q.100 78 is related to 97 following a certain logic. Following the same logic, 117 is related to 136. To which of the given options is 148 related, following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- ☒ A. 159
 - ☒ B. 167
 - ☒ C. 183
 - ☒ D. 171



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - 08/2025 - CEN - 04/2025
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Center Name	iON Digital Zone iDZ Hebbal
Test Date	12/02/2026
Test Time	9:00 AM - 11:00 AM
Subject	RRB SECTION CONTROLLER CBT 1

* Note

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

Q.1 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

FLAP - LAFP - PALF
COIN - OICN - NIOC

- Ans ☒ A. DISC - ISDC - ISCD
☒ B. HALF - ALHF - FLAH
☒ C. GOLF - GLOF - FLOG
☒ D. BASE - ABSE - EASB

Q.2 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: A two/three digit number cannot be broken into individual digits for operations. E.g.: If 37 is followed by 10, the operation cannot be $3 + 7$ as a two digit number cannot be broken into individual digits.)

20 - 33 - 27 - 35

15 - 28 - 22 - 30

- Ans ☒ A. 7 - 20 - 14 - 6
☒ B. 8 - 21 - 15 - 23
☒ C. 9 - 22 - 16 - 25
☒ D. 4 - 17 - 23 - 31

Q.3 The fourth proportional of the numbers x , $(x+2)$ and $3x$ is 33. Find the second proportional; x is a natural number.

- Ans ☒ A. 9
☒ B. 11
☒ C. 18
☒ D. 27

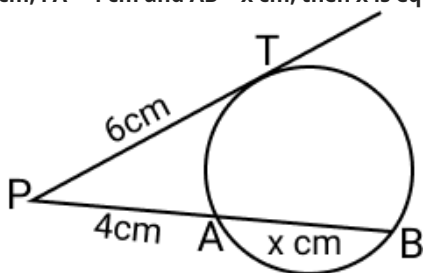
Q.4 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $15 \div 2 - 63 \times 7 + 11 = ?$

- Ans** ☒ A. 28
☒ B. 25
☒ C. 36
☒ D. 30

Q.5 A shopkeeper buys an article for ₹2,400 and marks it for sale at a price that gives him 80% profit on his cost price. He, however, gives a 41% discount on the marked price to his customer. Find the actual profit made by the shopkeeper.

- Ans** ☒ A. ₹148.80
☒ B. ₹149.80
☒ C. ₹146.80
☒ D. ₹147.80

Q.6 In the given figure, PAB is a secant and PT is a tangent to the circle from P. If $PT = 6$ cm, $PA = 4$ cm and $AB = x$ cm, then x is equal to:



- Ans** ☒ A. 5
☒ B. 6
☒ C. 4
☒ D. 3

Q.7 If a data set has a median of 92 and a mean of 84, what is the value of the mode?

- Ans** ☒ A. 102
☒ B. 108
☒ C. 98
☒ D. 96

Q.8 $\triangle ABC$ and $\triangle ADE$ are such that point D lies on side BC. If $AB = AD$, $AC = AE$ and $\angle BAD = \angle EAC$, then which of the following relations is correct?

- Ans** ☒ A. $BC = DE$
☒ B. $BC < DE$
☒ C. $BC = BA$
☒ D. $BC > DE$

Q.9 A can complete a piece of work in 12 days and B can complete it in 18 days. If they work on alternate days, starting with B on the first day, then in how many days will the work be completed?

- Ans** ☒ A. 14
☒ B. 15
☒ C. $14\frac{1}{2}$
☒ D. $15\frac{1}{2}$

Q.10 An item is marked 154% higher than its cost price. Even after allowing some discount, the shopkeeper earns a 27% profit. Find the discount percentage allowed by the shopkeeper.

- Ans**
- ☐ A. 48%
 - ☐ B. 53%
 - ☒ C. 50%
 - ☐ D. 47%

Q.11 Find the value of y , satisfying $23 \times 7 \times 616 \div \sqrt{3136} = y + 506$

- Ans**
- ☒ A. 1265
 - ☐ B. 1271
 - ☐ C. 1256
 - ☐ D. 1275

Q.12 The average of 8 numbers is 59. If each number is increased by 6, what will the new average be?

- Ans**
- ☐ A. 59
 - ☒ B. 65
 - ☐ C. 8
 - ☐ D. 71

Q.13 A garrison of 1,210 men has provisions for 16 days. How long (in days) will the provisions last if the garrison be increased by 550 men?

- Ans**
- ☒ A. 11
 - ☐ B. 9
 - ☐ C. 10
 - ☐ D. 12

Q.14 All 46 students in a class are standing in a row facing north. Jaya is 15th from the right end, while Sanjay is 26th from the left end. How many people stand between Jaya and Sanjay?

- Ans**
- ☐ A. 4
 - ☐ B. 6
 - ☐ C. 7
 - ☒ D. 5

Q.15 Refer to the following number series and answer the question that follows. Counting is to be done from left to right only. (All numbers are single-digit numbers only.)

(Left) 2 6 4 6 2 6 7 3 8 6 3 1 8 6 1 9 8 9 1 7 7 6 3 7 5 5 2 (Right)

How many such odd numbers are there that are immediately preceded by an odd number and also immediately followed by an odd number?

- Ans**
- ☐ A. Five
 - ☒ B. Four
 - ☐ C. Six
 - ☐ D. Three

Q.16 An arithmetic progression has 32 as its first term and 48 as its last term, with a total of 12 terms. What is the sum of these 12 terms?

- Ans** ☒ A. 480
☐ B. 482
☐ C. 478
☐ D. 479

Q.17 Refer to the given letter, symbol series and answer the question that follows.
Counting to be done from left to right only.

(Left) # F * G W # C # Y R & @ W Z @ L & L N % # W (Right)

How many such letter are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans** ☒ A. 3
☐ B. 2
☐ C. 5
☐ D. 4

Q.18 A man buys 12 identical articles for a total of ₹20. If he sells each of them for ₹2.1, then what is his profit percentage?

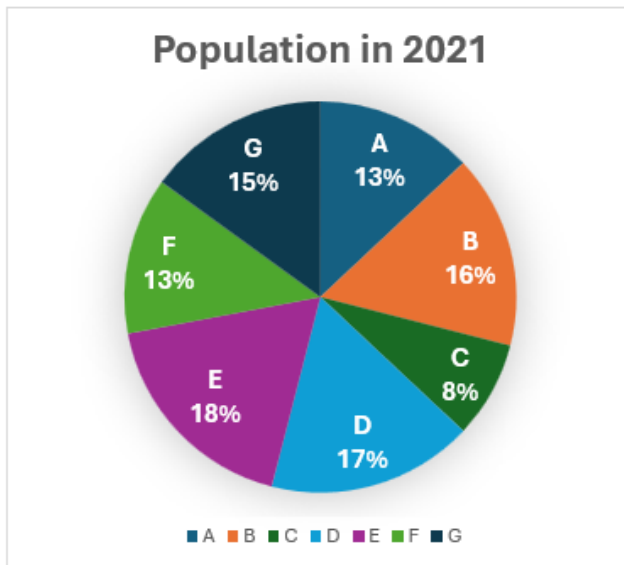
- Ans** ☐ A. 21.63%
☐ B. 20.63%
☐ C. 27%
☒ D. 26%

Q.19 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: SNJ :: QLH : %

- Ans** ☐ A. # = MNM, % = AZN
☐ B. # = IOD, % = WNB
☒ C. # = MHD, % = WRN
☐ D. # = OPD, % = WVN

- Q.20 Study the pie chart to answer the question that follow. The population proportion of seven towns in 2021 is shown in the pie chart.



If the total population of all the towns is 3,07,500 and 40% of the population of the town G is under poverty line. The number of people under poverty line of town G is:

- Ans ☒ A. 18,450
☒ B. 19,450
☒ C. 18,540
☒ D. 19,540
- Q.21 The average of 41 numbers is 36. The average of the first 19 numbers is 57 and the average of the last 23 numbers is 30. If the 19th number from the beginning is excluded, then what is the average of the remaining numbers?
- Ans ☒ A. 27.1
☒ B. 33.689
☒ C. 29.475
☒ D. 25.25
- Q.22 An arithmetic progression has 54 as its first term and 72 as its last term, with a total of 10 terms. What is the sum of these 10 terms?
- Ans ☒ A. 630
☒ B. 632
☒ C. 627
☒ D. 631
- Q.23 By how much is 30% of 65 greater than 35% of 30?
- Ans ☒ A. 4
☒ B. 6
☒ C. 11
☒ D. 9

Q.24 What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$96 \times 16 - 13 \div 12 + 28 = ?$$

- Ans**
- ☒ A. 131
 - ☒ B. 134
 - ☒ C. 132
 - ☒ D. 133

Q.25 Find the median of all the odd numbers between 520 and 550.

- Ans**
- ☒ A. 537
 - ☒ B. 531
 - ☒ C. 535
 - ☒ D. 533

Q.26 The ratio of the speed of a boat in still water to the speed of a stream is 16:5. A boat goes 16.5 km upstream in 45 minutes. Find the time (in minutes) taken by the boat to cover 17.5 km downstream.

- Ans**
- ☒ A. 30
 - ☒ B. 22
 - ☒ C. 27
 - ☒ D. 25

Q.27 The area of the base of a right circular cone is 2464 cm^2 and its height is 45 cm. What is the curved surface area of the cone?
(Use $\pi = 22/7$)

- Ans**
- ☒ A. 4664 cm^2
 - ☒ B. 5058 cm^2
 - ☒ C. 3646 cm^2
 - ☒ D. 4224 cm^2

Q.28 Three varieties of wheat are mixed in the ratio (weight in kgs) of 4:5:8. When 5 kg of the first variety, 10 kg of the second variety and P kg of the third variety are added to the mixture, the ratio becomes 5:7:9. Find the value of P.

- Ans**
- ☒ A. 5
 - ☒ B. 4
 - ☒ C. 4.5
 - ☒ D. 5.5

Q.29 At a health club, 44% of the members are women and 56% of the members are men. If the average age of the men is 52 years and the average age of the women is 67 years, what is the average age (in years) of all the members?

- Ans**
- ☒ A. 58.6
 - ☒ B. 68.4
 - ☒ C. 66.4
 - ☒ D. 56.5

Q.30 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 1324756, then what will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

- Ans**
- ☒ A. 7
 - ☒ B. 12
 - ☒ C. 5
 - ☒ D. 6

Q.31 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

FLR BHN XDJ TZF PVA LRX

- Ans ☒ A. XDJ
☒ B. LRX
☒ C. PVA
☒ D. TZF

Q.32 Each of G, H, I, J, N, O and P has a flight on a different day of the week, starting from Monday and ending on Sunday of the same week. Only I has a flight after H. Only three people have flights between N and H. Only three people have flights between O and I. J has a flight on some day before P and on some day after G. How many people have flights between G and J?

- Ans ☒ A. Three
☒ B. One
☒ C. Four
☒ D. Two

Q.33 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: INQ :: FKO : %

- Ans ☒ A. # = LQU, % = CHK
☒ B. # = TJV, % = HEL
☒ C. # = RTP, % = DEJ
☒ D. # = SRP, % = GFE

Q.34 A hollow hemispherical steel bowl can contain $\frac{686\pi}{3}$ cubic units of li
(in cubic units) was used to make the bowl?

- Ans ☒ A. $\frac{770\pi}{3}$
☒ B. $\frac{772\pi}{3}$
☒ C. $\frac{769\pi}{3}$
☒ D. $\frac{767\pi}{3}$

Q.35 In a certain code language, 'DENT' is coded as '6924' and 'PADS' is coded as '1359'. What is the code for 'D' in the given code language?

- Ans ☒ A. 3
☒ B. 6
☒ C. 9
☒ D. 5

Q.36 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
 (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans ☒ A. SU-WY
☒ B. IK-MO
☒ C. PR-TV
☒ D. DF-HK

Q.37 If the mode of a grouped data is 45.2, lower limit of modal class is 40, $f_1 = 25$, $f_0 = 18$, what is the value of f_2 ? (Rounded off to the nearest v

- Ans ☒ A. 19
☒ B. 20
☒ C. 18
☒ D. 16

Q.38 There are 6,200 candidates appeared in a CAT examination and the ratio of boys to girls in the school is 23 : 39. Find the number of boys appeared in the CAT examination.

- Ans ☒ A. 2,293
☒ B. 2,306
☒ C. 2,304
☒ D. 2,300

Q.39 Calculate the volume of a cube whose side length is 23 millimetres.

- Ans ☒ A. 12,177 mm³
☒ B. 12,147 mm³
☒ C. 12,157 mm³
☒ D. 12,167 mm³

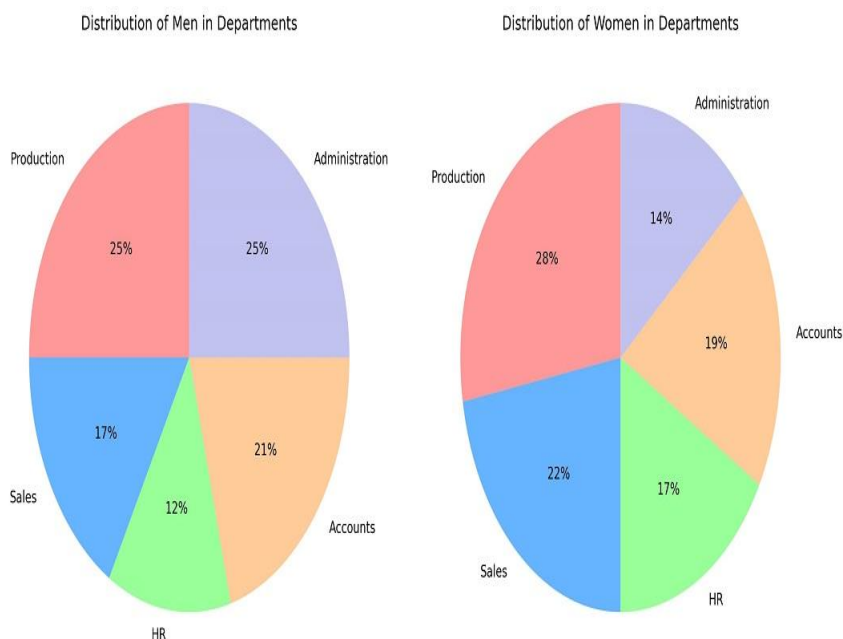
Q.40 Find the probability that a randomly chosen number from the first 80 natural numbers is either a perfect square or divisible by 7.

- Ans ☒ A. $\frac{7}{40}$
☒ B. $\frac{9}{40}$
☒ C. $\frac{9}{37}$
☒ D. $\frac{5}{42}$

Q.41 A man incurs a loss of 12% by selling an article for ₹264. If he sells it for ₹495, what will be his gain percentage?

- Ans ☒ A. 65%
☒ B. 62%
☒ C. 60%
☒ D. 64%

Q.42 The pie charts given below illustrate the distribution of male and female employees across various departments in a company.



If there are 600 men and 900 women in the company, find the total number of workers in the Production department.

- Ans**
- ☒ A. 450
 - ☒ B. 402
 - ☒ C. 500
 - ☒ D. 350

Q.43 Find the mode for the following data representing weekly wages (₹) of workers.

Wage Range (₹)	Frequenc y
200-250	6
250-300	12
300-350	20
350-400	25
400-450	10
450-500	7

- Ans**
- ☒ A. 360.5
 - ☒ B. 361
 - ☒ C. 364
 - ☒ D. 362.5

Q.44 3 chairs and 15 tables cost ₹6300 and 7 chairs and 12 tables cost ₹7800. What is the cost of 11 chairs and 16 tables?

- Ans ☐ A. ₹11404
☐ B. ₹11397
☐ C. ₹11398
☒ D. ₹11400

Q.45 If 135 kg of corn feeds 45 horses for 8 days, for how long will the same quantity of corn feed 24 horses?

- Ans ☐ A. 17 days
☐ B. 18 days
☐ C. 13 days
☒ D. 15 days

Q.46 A total of ₹14,800 is to be divided among A, B, and C such that 6 times of A's share = 4 times of B's share = 5 times of C's share. Find A's share.

- Ans ☒ A. ₹4,000
☐ B. ₹4,076
☐ C. ₹3,990
☐ D. ₹3,867

Q.47 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some cranes are marbles.
All marbles are balls.

Conclusions:

(I) Some cranes are balls.
(II) All balls are marbles.

- Ans ☐ A. Neither conclusion (I) nor (II) follows.
☐ B. Both conclusions (I) and (II) follow.
☒ C. Only conclusion (I) follows.
☐ D. Only conclusion (II) follows.

Q.48 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans ☒ A. OI - LK
☐ B. SX - UZ
☐ C. MR - OT
☐ D. QV - SX

Q.49 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

YEK UAG QWC MSY IOV EKQ

- Ans ☐ A. QWC
☐ B. MSY
☒ C. IOV
☐ D. EKQ

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 50

Q.50 Identify the most appropriate title for the passage.

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 51

Q.51 The tone of the passage can best be described as _____.

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 52

Q.52 According to the passage, which part of the brain matures last?

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 53

Q.53 Which statement best captures the author's viewpoint?

Comprehension:

Read the given passage and answer the questions that follow.

We are aware that adolescence brings striking physical changes, but profound neurological transformations also occur. To understand them, we must first grasp the brain's composition. The brain contains about 100 billion neurons—nerve cells that communicate through intricate networks. Each neuron transmits electrical impulses along an axon, which then leap across minute synapses to the dendrites of another neuron, forming a vast circuit of communication. Although infants possess nearly all their neurons at birth, they have few connections, limiting their abilities. Rapid synaptic growth in early childhood enables skills such as walking and speaking. Contrary to earlier beliefs, brain development continues throughout life, with adolescence marking the most intense period of restructuring. During puberty, neural connections proliferate before undergoing “pruning,” much like trimming a plant to promote healthy growth. Frequently used connections strengthen, while unused ones fade, illustrating why repetition enhances proficiency—validating the adage practice makes perfect. Thus, teenagers actively sculpt their own neural architecture through chosen activities, from mastering instruments to acquiring languages. Interestingly, the frontal cortex—the region governing judgment, self-control, and reasoning—matures last. Until then, adolescents rely heavily on the brain's emotional centre for decision-making. Hence, impulsive or risk-prone teenage behaviour, often attributed to hormones, may stem more from neurological development than from mood alone.

SubQuestion No : 54

Q.54 The word 'pruning' as used in the text suggests _____.

Q.55 The sum of two positive numbers is 76 and their product is 1408. The positive difference between them is:

- Ans**
- ☒ A. 5
 - ☒ B. 9
 - ☒ C. 12
 - ☒ D. 8

Q.56 Two dice are thrown simultaneously. The probability that the sum of the numbers on the faces turned up exceeds 7 is:

- Ans**
- ☒ A. $\frac{7}{12}$
 - ☒ B. $\frac{5}{12}$
 - ☒ C. $\frac{13}{36}$
 - ☒ D. $\frac{11}{36}$

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 57

Q.57 What is the central theme of the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 58

Q.58 What is the ANTONYM of 'solitary' as used in the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 59

Q.59 Which of the following is a fact stated in the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 60

Q.60 Which title best captures the essence of the passage?

Comprehension:

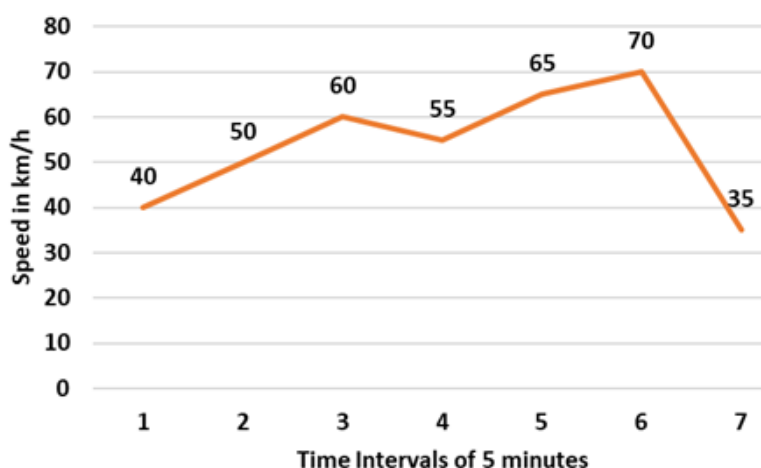
Read the given passage and answer the questions that follow.

Vincent van Gogh was a Dutch painter, generally considered the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists. The striking colour, emphatic brushwork, and contoured forms of his work powerfully influenced the current of Expressionism in modern art. Van Gogh's art became astoundingly popular after his death when his work sold for record-breaking sums at auctions around the world and was featured in blockbuster touring exhibitions. Van Gogh, the eldest of six children of a Protestant pastor, was born and reared in a small village in the Brabant region of the southern Netherlands. He was a quiet, self-contained youth, spending his free time wandering the countryside to observe nature. At 16, he was apprenticed to The Hague branch of the art dealers Goupil and Co., of which his uncle was a partner. Van Gogh worked for Goupil in London and in Paris. Daily contact with works of art aroused his artistic sensibility, and he soon formed a taste for Rembrandt, Frans Hals, and other Dutch masters, although his preference was for two contemporary French painters, Jean-François Millet and Camille Corot, whose influence was to last throughout his life. Van Gogh disliked art dealing. Moreover, his approach to life darkened when his love was rejected by a London woman in 1874. His burning desire for human affection thwarted, he became increasingly solitary. He worked as a language teacher and lay preacher in England and, in 1877, worked for a bookseller in Dordrecht, Netherlands.

SubQuestion No : 61

Q.61 What best describes the tone of the passage?

Q.62 The graph depicts the speed at which Rishi travels to office, where on the X-axis the intervals mentioned are at the end of every 5 minutes. What is the time taken (in minutes) for Rishi's constant increase of speed from 55 km/h to a speed of 70 km/h?



- Ans
- ☒ A. 15
 - ☒ B. 10
 - ☒ C. 5
 - ☒ D. 20

- Q.63** Study the given table carefully and answer the questions that follow. The given table indicates the production of different types of cars (in thousands) from 1998 to 2003.

Year Types	1998	1999	2000	2001	2002	2003
A	36	34	40	35	43	45
B	20	22	25	23	20	16
C	14	30	16	25	30	35
D	60	40	45	55	60	60
E	40	44	48	50	80	100

In which year is the total production of A and D together equal to the total production of C and E together?

- Ans** ☒ A. 2000
☒ B. 1999
☒ C. 1998
☒ D. 2001

- Q.64** Fourth proportion to 12, 18 and 6 is same as the third proportion to 4 and k. What is the positive value of k?

- Ans** ☒ A. 7
☒ B. 6
☒ C. 4
☒ D. 8

- Q.65** What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$38 \div 5 - 14 + 26 \times 2 = ?$$

- Ans** ☒ A. 197
☒ B. 191
☒ C. 203
☒ D. 195

- Q.66** If x-1 is the mean proportion between x-2 and x-8 ,then find the value of x.

- Ans** ☒ A. $\frac{5}{4}$
☒ B. $\frac{15}{8}$
☒ C. $\frac{15}{7}$
☒ D. $\frac{5}{3}$

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 67

Q.67 Which of the following is the most suitable title for the passage?

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 68

Q.68 Identify the tone of the passage.

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 69

Q.69 What percentage of people are estimated to be super-recognisers?

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 70

Q.70 What does the passage imply about human versus machine recognition?

Comprehension:

Read the passage and answer the questions.

In 2011, violent riots erupted across London and several English cities. Petrol bombs were hurled, properties vandalised, and shops looted. Despite extensive CCTV footage, most images were unclear, with rioters masking their faces. Gary Collins, an off-duty police officer, was watching the riots on television when he recognised several individuals. Interrupting his holiday, he spent six months meticulously examining CCTV footage and successfully identified 190 offenders—many solely by their eyes. His extraordinary contribution proved invaluable, especially since facial-recognition software identified only one person from 200,000 hours of film. Collins is a super-recogniser, a rare individual capable of recalling faces with exceptional precision. Coined in 2009, the term refers to the 1–2% of people who remember up to 95% of faces they encounter, in contrast to the average person's 20%. Inspired by Collins's achievement, London's Metropolitan Police established the world's first super-recogniser unit in 2015. This small team of six officers has since been responsible for nearly a quarter of all identifications in London, despite the presence of over 30,000 officers. Their success, amplified by Britain's extensive CCTV network, has aided in convicting criminals ranging from petty thieves to murderers. Though rarely sole evidence, their findings often direct investigations, with many culprits pleading guilty upon recognition.

SubQuestion No : 71

Q.71 The phrase "exceptional precision" most nearly means _____.

Q.72 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. B lives on an odd numbered floor but not on floor number 5. Only three people live between C and A. A lives immediately below B. F lives immediately above E. How many people live between D and F?

- Ans**
- ☒ A. None
 - ☒ B. Two
 - ☒ C. Three
 - ☒ D. One

Q.73 Find the mean deviation from the mean for the following data, given that the mean is 9.55. (Round off your answer to two decimal places.)

Size of items x_i	4	6	8	10	12	14	16
Frequency f_i	2	5	5	3	2	1	4

- Ans**
- ☒ A. 2.46
 - ☒ B. 3.32
 - ☒ C. 3.12
 - ☒ D. 2.42

Q.74 The mode of the following data is 8. Find the value of f.

Class	frequency
Interv	y
als	
0 - 6	13
6 - 12	f
12 - 18	7
18 - 24	10
24 - 30	8

- Ans**
- ☒ A. 21
 - ☒ B. 15
 - ☒ C. 19
 - ☒ D. 16

Q.75 Find the value of the following expression.

$$5^2 + 10^2 + 15^2 + \dots + 50^2$$

- Ans**
- ☒ A. 9625
 - ☒ B. 8625
 - ☒ C. 9525
 - ☒ D. 10525

Q.76 An article is currently priced at ₹10,000. Its price increases by 26% in the first year and by 65% in the second year, but then decreases by 20% in the third year. What will be the price (in ₹) of the article at the end of the third year?

- Ans**
- ☐ A. 16,637
 - ☐ B. 16,634
 - ☐ C. 16,628
 - ☒ D. 16,632

Q.77 A cone is cut parallel to its base, forming a frustum. If the radii of the two circular bases of the frustum are 5 cm and 3 cm, and the height of the frustum is 12 cm, find the volume of the original cone. (Take $\pi = \frac{22}{7}$)

- Ans**
- ☐ A. $685\frac{6}{7}\text{ cm}^3$
 - ☐ B. $685\frac{5}{7}\text{ cm}^3$
 - ☒ C. $785\frac{5}{7}\text{ cm}^3$
 - ☐ D. $785\frac{6}{7}\text{ cm}^3$

Q.78 A, B, C, D, J, K, L and M are sitting around a square table, facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides. Only three people sit between L and M. L sits at the centre of one of the sides. A sits second to the left of M. D sits second to the right of C. J sits at one of the corners and is not an immediate neighbour of M. Only three people sit between D and K. J is not an immediate neighbour of B. Who sits fourth to the left of B?

- Ans**
- ☐ A. J
 - ☐ B. K
 - ☒ C. A
 - ☐ D. M

Q.79 The simplified value of $\frac{66}{18} \times (82 + 41) + 34$ is

- Ans**
- ☒ A. 485
 - ☐ B. 477
 - ☐ C. 491
 - ☐ D. 480

Q.80 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group? (Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans**
- ☐ A. IM - LP
 - ☐ B. MQ - PT
 - ☐ C. EI - HL
 - ☒ D. LO - NL

Q.81 Refer to the following letter-symbol series and answer the question that follows.
Counting is to be done from left to right only.

(Left) K @ % H U # A W N * Z Σ V F Ω L \$ E P & M (Right)

How many such symbols are there each of which is immediately preceded by a vowel but not immediately followed by a vowel?

- Ans ☐ A. One
☐ B. Three
☒ C. None
☐ D. Two

Q.82 The least number which when increased by 7 is divisible by each of the numbers 32, 36, 54 and 64 is:

- Ans ☐ A. 1439
☐ B. 1632
☐ C. 1245
☒ D. 1721

Q.83 The volume of a cylinder having height 49 cm and radius 17 cm is _____.

$$\text{Use } \pi = \frac{22}{7}$$

- Ans ☐ A. 44580 cm³
☐ B. 44426 cm³
☐ C. 44492 cm³
☒ D. 44506 cm³

Q.84 In a cloth store, 10 varieties of sarees are arranged on two parallel racks. Rack 1 is facing towards the South and it has the following variety of sarees: A, B, C, D and E. Rack 2 is facing towards the North and it has the following variety of sarees: F, G, H, I and J. Thus, each saree in Rack 1 is placed in front of a saree in Rack 2 and vice versa. Variety D and B sarees are placed at extreme ends and are opposite Variety I and G sarees on the opposite rack, respectively. Variety C is at the middlemost position and is opposite neither H nor J. Variety A sarees are placed to the immediate right of B, H is not the saree variety opposite to Variety A. Which variety of sarees are opposite H?

- Ans ☐ A. B
☐ B. D
☐ C. A
☒ D. E

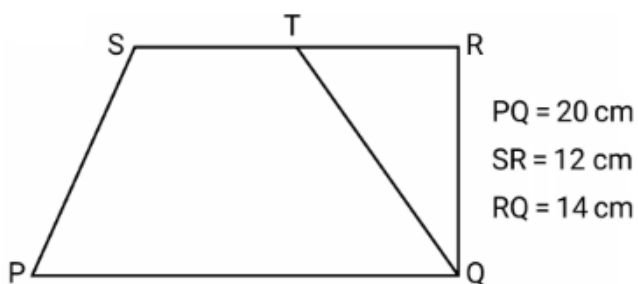
Q.85 If the perimeter of a square and rectangle are 40 cm each and the difference in their areas is 4 cm², find the difference between the length and breadth of the rectangle (in cm).

- Ans ☐ A. 8
☐ B. 6
☐ C. 2
☒ D. 4

Q.86 A shopkeeper marks an article at 30% above the cost price and allows a discount of 10%. Find his profit percentage.

- Ans ☐ A. 20%
☒ B. 17%
☐ C. 12%
☐ D. 15%

- Q.87** In the following figure PQRS, $PQ \parallel RS$ and angle $R = 90^\circ$. If the area of triangle $QRT = 42 \text{ cm}^2$, then find the area of PQST (in cm^2).



- Ans** ☒ A. 198
☒ B. 220
☒ C. 182
☒ D. 204

- Q.88** A solid hemisphere of radius 14 cm is melted and recast into small hemispheres each of radius 7 cm. How many small hemispheres are formed?

- Ans** ☒ A. 6
☒ B. 8
☒ C. 27
☒ D. 16

- Q.89** Find the value of m for which it satisfies

$$\left(\frac{24}{7}\right)^5 \times \left(\frac{7}{24}\right)^{16} \times \left(\frac{24}{7}\right)^6 = \left(\frac{7}{24}\right)^{8m+4}$$

- Ans** ☒ A. $\frac{5}{8}$
☒ B. $\frac{7}{8}$
☒ C. $\frac{1}{8}$
☒ D. $-\frac{1}{8}$

- Q.90** A cuboid of dimension 48 cm by 80 cm by 96 cm is to be divided into identical cubes. With the maximum possible value of side of the identical cube possible, find the total volume of all the cubes (in cm^3).

- Ans** ☒ A. 5,52,960
☒ B. 1,61,440
☒ C. 2,14,230
☒ D. 3,68,640

- Q.91** The simplified value of $\frac{(38^6 \times 2^4 \times 96^{16})}{(38^5 \times 2^3 \times 96^{15})}$ is

- Ans** ☒ A. 7301
☒ B. 7290
☒ C. 7295
☒ D. 7296

Q.92 Find the area of the triangle whose sides are in the ratio of 7:4:8 with a perimeter of 38 cm.

- Ans
- ☐ A. 60 cm^2
 - ☐ B. 55 cm^2
 - ☐ C. $\sqrt{2135} \text{ cm}^2$
 - ☒ D. $\sqrt{3135} \text{ cm}^2$

Q.93 The circumference of the base of a cylindrical vessel is 300 cm and its height is 88 cm. How many litres of water can it hold?

- Ans
- ☒ A. 630
 - ☐ B. 582
 - ☐ C. 645
 - ☐ D. 679

Q.94 On a 2295 m long circular track, Siddharth finishes one round in 85 seconds and Yash finishes one round in 45 seconds. How many different meeting points are there on the track if they are running in the opposite directions?

- Ans
- ☐ A. 20
 - ☒ B. 26
 - ☐ C. 36
 - ☐ D. 33

Q.95 The length (in mm) of the shoes of few students were measured and observations are as under. Find the median length of the shoes (in mm).

Length: 123 124 122 120 121 125
Number of students: 6 8 10 12 15 9

- Ans
- ☒ A. 122
 - ☐ B. 121
 - ☐ C. 124
 - ☐ D. 123

Q.96 What should come in place of the question mark (?) in the given series?

451 450 460 458 470 467 481 ?

- Ans
- ☒ A. 477
 - ☐ B. 479
 - ☐ C. 476
 - ☐ D. 478

Q.97 The H.C.F. and the L.C.M. of two numbers are 34 and 408, respectively. If one of the numbers is 102, then find the other number.

- Ans
- ☐ A. 64
 - ☒ B. 136
 - ☐ C. 122
 - ☐ D. 121

Q.98

The value of $\frac{2}{8} + \frac{4}{8} + \frac{5}{16} + \frac{2}{8} - 4$ is

Ans

☐ A. $-\frac{45}{16}$

☐ B. $-\frac{53}{16}$

☒ C. $-\frac{43}{16}$

☐ D. $-\frac{33}{16}$

Q.99 The average height of 16 boys out of a class of 50 boys is 160 cm. If the average height of the remaining boys is 168 cm, then the average height of the whole class (in cm) is:

Ans

☐ A. 166.44

☒ B. 165.44

☐ C. 165

☐ D. 164

Q.100 In a certain code language,

A @ B means 'A is the sister of B'

A # B means 'A is the wife of B'

A $\neq$ B means 'A is the father of B'

A + B means 'A is the brother of B'

Based on the above, how is F related to V if 'F # G $\neq$ S @ T + V'?

Ans

☐ A. Wife

☐ B. Sister

☒ C. Mother

☐ D. Mother's mother



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - 08/२०२५ - CEN - 04/2025
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Center Name	iON Digital Zone iDZ Laxman Nagar
Test Date	12/02/2026
Test Time	1:00 PM - 3:00 PM
Subject	RRB SECTION CONTROLLER CBT 1

* Note

Correct Answer will carry 1 mark per Question.

Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

Q.1 Amit and Sumit started a business, investing amounts of ₹800 and ₹950, respectively. If Sumit's share in the profit earned by them is ₹570, what is the total profit (in ₹) earned by them together?

- Ans
- ☒ A. 900
 - ☒ B. 1122
 - ☒ C. 1124
 - ☒ D. 1050

Q.2 The simplified value of $55 - [76 - (54 \div 6 - (14 - 24 \div 2) \div 9)]$ is:

- Ans
- ☒ A. $-\frac{110}{9}$
 - ☒ B. $-\frac{100}{9}$
 - ☒ C. $-\frac{119}{9}$
 - ☒ D. $-\frac{106}{9}$

Q.3 The simplified value of $52 - [71 - (66 \div 6 - (13 - 28 \div 7) \div 5)]$ is:

- Ans
- ☒ A. $-\frac{48}{5}$
 - ☒ B. $-\frac{52}{5}$
 - ☒ C. $-\frac{49}{5}$
 - ☒ D. $-\frac{56}{5}$

Q.4 In the following series, only one letter-cluster is incorrect. Select the **INCORRECT** letter-cluster.

WQK AUO EYS ICW MGA QKC

- Ans**
- ☒ A. EYS
 - ☒ B. MGA
 - ☒ C. ICW
 - ☒ D. QKC

Q.5 Refer to the given letter series and answer the question that follows. Counting to be done from left to right only.

(Left) B E Q A K Q H Z Y M R I S O V D P F U G C (Right)

How many letters are there in the English alphabetical series between the letter that is fifth from the right end and fifth from the left end of the series?

- Ans**
- ☒ A. Four
 - ☒ B. Six
 - ☒ C. Three
 - ☒ D. Five

Q.6 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

19 - 3 - 16
3 - 1 - 2

- Ans**
- ☒ A. 19 - 4 - 15
 - ☒ B. 50 - 25 - 35
 - ☒ C. 22 - 9 - 11
 - ☒ D. 7 - 2 - 6

Q.7 A solid metallic sphere of radius 21 cm is melted and recast into a cone with base radius 14 cm and a cylinder with radius 7 cm. If the heights of the cone and cylinder are equal, what is their common height?

- Ans**
- ☒ A. 106 cm
 - ☒ B. 104 cm
 - ☒ C. 108 cm
 - ☒ D. 105 cm

Q.8 Refer to the following letter series and answer the question that follows.

(Left) M E Q A K Q G Z Y B R I S O V C P F U H D (Right)

How many letters are there in the English alphabetical series between the letter which is second from the right end and second from the left end of the series?

- Ans**
- ☒ A. Three
 - ☒ B. Two
 - ☒ C. One
 - ☒ D. None

Q.9 In a certain code language,
A @ B means 'A is the daughter of B'
A # B means 'A is the son of B'
A ÷ B means 'A is the sister of B'
A + B means 'A is the father of B'
Based on the above, how is F related to V if 'F @ G + S ÷ T # V'?

- Ans** ☒ A. Daughter
☐ B. Sister
☐ C. Sister's daughter
☐ D. Wife

Q.10 The average of 41 numbers is 42. The average of the first 13 numbers is 70 and the average of the last 29 numbers is 81. If the 13th number from the beginning is excluded, then what is the average of the remaining numbers?

- Ans** ☐ A. 2.268
☐ B. 0.86
☒ C. 4.625
☐ D. 10.5

Q.11 A man incurs a loss of 24% by selling an article for ₹171. If he sells it for ₹234, what will be his gain or loss percentage?

- Ans** ☐ A. Loss, 5%
☒ B. Gain, 4%
☐ C. Gain, 1%
☐ D. Loss, 2%

Q.12 The volume (in cm³) of a rod of diameter 10 cm and length 35 m is:
(Take $\pi = \frac{22}{7}$)

- Ans** ☐ A. 2,74,400
☐ B. 2,75,200
☒ C. 2,75,000
☐ D. 2,75,900

Q.13 In a certain code language, 'CUTE' is coded as '7624' and 'SOUP' is coded as '1357'. What is the code for 'U' in the given code language?

- Ans** ☒ A. 7
☐ B. 3
☐ C. 5
☐ D. 6

Q.14 Seven boxes, G, H, I, J, N, O and P, are kept one over the other but not necessarily in the same order. Only N is kept below J. Only P is kept above H. Only G is kept between H and O. How many boxes are kept above I?

- Ans** ☐ A. Two
☐ B. One
☐ C. Three
☒ D. Four

Q.15 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$124 \times 4 \div 8 - 92 + 26 = ?$$

- Ans ☒ A. 314
☐ B. 306
☐ C. 322
☐ D. 298

Q.16 Walking at $\frac{2}{5}$ of his normal speed from his home, Bhavesh is 30 minutes late. The usual time taken by him to cover the distance between his home and office is _____.

- Ans ☐ A. 16 minutes
☒ B. 20 minutes
☐ C. 11 minutes
☐ D. 19 minutes

Q.17 In a $\triangle LMN$, $\angle LMN = 67^\circ$ and $\angle LNM = 42^\circ$. If P is the incentre of the triangle, then $\angle MPN$ is _____.

- Ans ☒ A. 125.5°
☐ B. 120°
☐ C. 120.5°
☐ D. 125°

Q.18 Seven boxes, G, H, I, J, N, O and P, are kept one over the other but not necessarily in the same order. Only two boxes are kept below G. H is kept immediately above G. N is kept immediately above I. Only one box is kept above O. P is kept at some place below J. How many boxes are kept between J and N?

- Ans ☐ A. Two
☒ B. Four
☐ C. One
☐ D. Three

Q.19 A shirt is listed at ₹192 with a discount of 25%. What additional percentage discount must be offered to the customer to bring the net price to ₹108?

- Ans ☒ A. 25%
☐ B. 23%
☐ C. 30%
☐ D. 27%

Q.20 An article is currently priced at ₹11,875. Its price increases by 10% in the first year and by 44% in the second year, but then decreases by 30% in the third year. What will be the price of the article at the end of the third year?

- Ans ☐ A. 13,162
☒ B. 13,167
☐ C. 13,166
☐ D. 13,168

Q.21 A can complete a piece of work in 90 days. B is 80% less efficient than A. C is 50% more efficient than B. B and C work together for 36 days. A alone will complete the remaining work in:

- Ans** ☒ A. 72 days
☐ B. 67 days
☐ C. 77 days
☐ D. 71 days

Q.22 Find the area of a plot which is in the shape of a quadrilateral, one of whose diagonals is 20 m and lengths of the perpendiculars from the opposite corners on it are of lengths 12 m and 18 m, respectively.

- Ans** ☐ A. 298 m²
☐ B. 340 m²
☐ C. 324 m²
☒ D. 300 m²

Q.23 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group? (Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans** ☐ A. LO - JM
☒ B. HK - FL
☐ C. PS - NQ
☐ D. NQ - LO

Q.24 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

YDI EJO KPO QVA WBG CHM

- Ans** ☐ A. QVA
☒ B. KPO
☐ C. EJO
☐ D. WBG

Q.25 Suppose that an unbiased pair of dice is rolled. Let A denote the event that the same number shows on each die. Let B denote the event that the sum is greater than 7. Find $P(A \cap B)$ and $P(B \setminus A)$, respectively.

- Ans** ☐ A. $\frac{1}{5}, \frac{1}{12}$
☐ B. $\frac{1}{6}, \frac{1}{5}$
☒ C. $\frac{1}{5}, \frac{1}{2}$
☐ D. $\frac{1}{6}, \frac{1}{12}$

Q.26 The sum of two positive numbers is 40 and their product is 76. The positive difference between them is:

- Ans** ☐ A. 49
☐ B. 26
☐ C. 42
☒ D. 36

Q.27 AB and CD are two parallel lines. PQ is a transversal line that intersects them. If $\angle PLB = (2x)^\circ$, $\angle BLQ = (y + 4x)^\circ$, $\angle DNQ = (x + 2y)^\circ$, find the value of x .

- Ans
- ☐ A. 15
 - ☐ B. 30
 - ☒ C. 60
 - ☐ D. 20

Q.28 The 30th term of the A.P. whose first and second terms are -2 and 13, is:

- Ans
- ☐ A. 436
 - ☐ B. 435
 - ☐ C. 434
 - ☒ D. 433

Q.29 If x is inversely proportional to y , and $y = 2$ when $x = 7$, find the value of x , when $y = 37$.

- Ans
- ☐ A. $\frac{15}{38}$
 - ☐ B. $\frac{14}{38}$
 - ☒ C. $\frac{14}{37}$
 - ☐ D. $\frac{16}{40}$

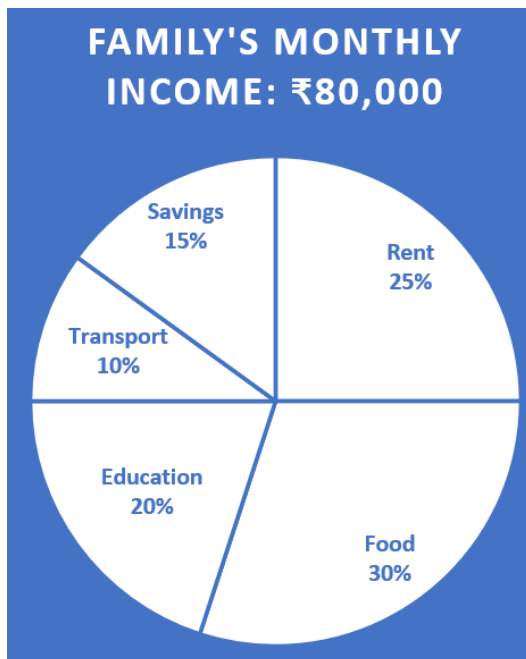
Q.30 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

WYW-SUS
XZX-TVT

- Ans
- ☒ A. ACA-WYW
 - ☐ B. ABY-VXV
 - ☐ C. ABY-WYW
 - ☐ D. ACA-VYV

Q.31 Study the pie chart and answer the question that follows.

The given pie chart shows the monthly expenses of a family, whose income is ₹80,000.



If the family's income increases by 25% next month and they maintain the same percentage distribution, what will be the new amount spent on 'Rent'?

- Ans
- ☐ A. ₹27,500
 - ☐ B. ₹30,000
 - ☒ C. ₹25,000
 - ☐ D. ₹22,500

Q.32 E, F, G, H, M, N, O and P are sitting around a square table, facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides.

N sits second to the right of G. Only three people sit between F and M. F is an immediate neighbour of G. Only three people sit between G and H when counted from the left of G. G sits at one of the corners. O sits to the immediate right of N. P is not an immediate neighbour of M.

How many people sit between E and O when counted from the left of O?

- Ans
- ☐ A. Two
 - ☐ B. Three
 - ☐ C. One
 - ☒ D. Four

Q.33 The volume of a cube is 1728 cm^3 . What is the surface area of the cube?

- Ans
- ☐ A. 664 cm^2
 - ☒ B. 864 cm^2
 - ☐ C. 872 cm^2
 - ☐ D. 868 cm^2

Q.34 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.
In row 1, I, K, O and L are seated and all of them are facing south.
In row 2, S, W, Z and A are seated and all of them are facing north.
Thus, each person faces another person from the other row.
S sits third to the left of A. The one facing K is an immediate neighbour of A. O sits at some place to the right of K and is not facing W. I sits third to the right of L.
Which of the following represents both people sitting at extreme ends of the line?

- Ans** ☒ A. S, K
☒ B. O, W
☒ C. I, W
☒ D. I, S

Q.35 Median of the data 8, 4, 2, 1, 5, 3, 2, 1, 4, 2, 8, 1, 2, 9, 0, 4, 5, 4, 6, 7, 11, 3, 13, -1 is

- _____.
- Ans** ☒ A. 3.5
☒ B. 3
☒ C. 4
☒ D. 4.5

Q.36 The average of 8 numbers is 59. If each number is increased by 7, what will the new average be?

- Ans** ☒ A. 66
☒ B. 8
☒ C. 73
☒ D. 59

Q.37 Two taps can fill a cistern in 3 hours and 49 hours, respectively. A third tap can empty the filled cistern in 49 hours. How long (in hours) will it take to fill two-third of the empty cistern if all of them are opened together?

- Ans** ☒ A. 8
☒ B. 6
☒ C. 4
☒ D. 2

Q.38 On the diameter AB of a circle with radius 7 units, a triangle ABC is made. The vertex C lies on the circle and the ratio of two adjacent sides at C is 2:3. What is the area of the triangle ABC in square units?

- Ans** ☒ A. $\frac{588}{13}$
☒ B. $\frac{589}{15}$
☒ C. $\frac{587}{15}$
☒ D. $\frac{599}{13}$

Q.39 The total surface area of a solid hemisphere is 294 cm^2 . Its radius (in cm) is:

Take $\pi = \frac{22}{7}$

Ans

☒ A. $\sqrt{\frac{353}{22}}$

☒ B. $\sqrt{\frac{343}{11}}$

☒ C. $\sqrt{\frac{340}{11}}$

☒ D. $\sqrt{\frac{345}{11}}$

Q.40 In what ratio must a grocer mix two varieties of rice worth ₹65 per kg and ₹89 per kg, so that if he sells the mixture at ₹123 per kg, he may gain 64%?

Ans

☒ A. 7:5

☒ B. 9:7

☒ C. 17:10

☒ D. 3:2

Q.41 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: OUH :: PVI : %

Ans

☒ A. # = SWQ, % = HLM

☒ B. # = SYL, % = LRE

☒ C. # = SYW, % = KFJ

☒ D. # = UYX, % = KLG

Q.42 The total surface area (in m^2) of a cube, each of whose edges measures 238 m, is:

Ans

☒ A. 339852

☒ B. 339882

☒ C. 339864

☒ D. 339834

Q.43 The simplified value of $\frac{37}{30} \times (62 + 21) + 89$ is

Ans

☒ A. $\frac{5741}{30}$

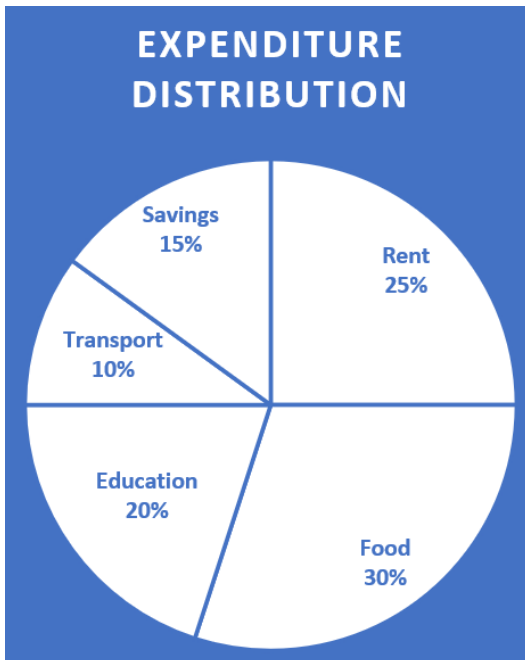
☒ B. $\frac{5743}{30}$

☒ C. $\frac{5737}{30}$

☒ D. $\frac{5731}{30}$

Q.44 Study the pie chart and answer the question that follows.

The given pie chart shows the expenditure distribution of a family's monthly income of ₹80,000.



How much does the family spend on 'Education'?

- Ans ☒ A. ₹16,000
☐ B. ₹18,000
☐ C. ₹14,000
☐ D. ₹20,000

Q.45 10 chairs and 5 tables cost ₹2400 and 16 chairs and 6 tables cost ₹3200. What is the cost of 5 chairs and 7 tables?

- Ans ☐ A. ₹2637
☐ B. ₹2638
☐ C. ₹2642
☒ D. ₹2640

Q.46 The median of the data given below is ____, approximately.

Class	Frequency
0-25	6
25-50	4
50-75	9
75-100	5

- Ans ☐ A. 54.44
☐ B. 57.77
☐ C. 56.66
☒ D. 55.55

Q.47 The following table gives the total number of employees and the percentage of males and females working in 5 different companies A, B, C, D and E. Study the graph and answer the question.

Company	Total no. of employees	Percentage of males	Percentage of females
A	900	60%	40%
B	600	55%	45%
C	500	75%	25%
D	800	65%	35%
E	700	70%	30%

The total number of females in companies B, C and D is what percentage of the total number of males in companies A and E (up to 2 decimal places)?

- Ans** ☒ A. 66.43%
☒ B. 65.53%
☒ C. 60.33%
☒ D. 55.63%

Q.48 A shopkeeper marks an article at ₹x and offers a discount of 50% on it. He sells it for ₹252 after charging a VAT of 44% on the discounted price. What is the value of x?

- Ans** ☒ A. 375
☒ B. 400
☒ C. 350
☒ D. 800

Q.49 The sum of two numbers is 64 and their L.C.M. is 220. The two numbers are:

- Ans** ☒ A. 37, 27
☒ B. 42, 22
☒ C. 44, 20
☒ D. 49, 15

Q.50 The 7-digit number 82A337B is divisible by 3. What is the maximum value of (A + B)?

- Ans** ☒ A. 11
☒ B. 17
☒ C. 16
☒ D. 18

Comprehension:

Read the following passage carefully and choose the best answer to each question out of the four alternatives.

The rate of biodiversity loss is alarming, with recent estimates showing that species extinctions are currently 10 to 100 times higher than the natural baseline. This is largely due to human activities like deforestation, habitat fragmentation, and climate change. This loss threatens essential ecosystem services, including pollination, soil fertility, and water purification, with direct consequences for human health. For example, the degradation of wetlands, which filter freshwater, has led to a 35% decline in global wetland coverage since 1970, thus increasing waterborne diseases and reducing water availability for over 2 billion people.

Biodiversity loss and ecosystem degradation are becoming major health concerns. When ecosystems are disrupted, services like clean air, water, and food can be affected. Additionally, we lose valuable natural resources – like plants and animals – that may hold untapped benefits for health and medicine.

Biodiversity serves as the foundation of healthy, sustainable food systems. It directly influences the availability and nutritional value of food, as a diverse range of plant and animal species, ecosystems, and genetic resources contribute to healthier, more resilient food production. Access to enough nutritious and varied food is a fundamental determinant of health.

Nutrition and biodiversity are interconnected at various levels, from ecosystems that provide food to the genetic diversity within species. This diversity affects the nutritional composition of food, including micronutrient availability. Healthy diets with adequate nutrient intake depend on high biodiversity.

SubQuestion No : 51

Q.51 Which of the following options most accurately states the main idea of the passage?

Comprehension:

Read the following passage carefully and choose the best answer to each question out of the four alternatives.

The rate of biodiversity loss is alarming, with recent estimates showing that species extinctions are currently 10 to 100 times higher than the natural baseline. This is largely due to human activities like deforestation, habitat fragmentation, and climate change. This loss threatens essential ecosystem services, including pollination, soil fertility, and water purification, with direct consequences for human health. For example, the degradation of wetlands, which filter freshwater, has led to a 35% decline in global wetland coverage since 1970, thus increasing waterborne diseases and reducing water availability for over 2 billion people.

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SubQuestion No : 52

Q.52 Which is the best description of the tone of the passage?

Comprehension:

Read the following passage carefully and choose the best answer to each question out of the four alternatives.

The rate of biodiversity loss is alarming, with recent estimates showing that species extinctions are currently 10 to 100 times higher than the natural baseline. This is largely due to human activities like deforestation, habitat fragmentation, and climate change. This loss threatens essential ecosystem services, including pollination, soil fertility, and water purification, with direct consequences for human health. For example, the degradation of wetlands, which filter freshwater, has led to a 35% decline in global wetland coverage since 1970, thus increasing waterborne diseases and reducing water availability for over 2 billion people.

Biodiversity loss and ecosystem degradation are becoming major health concerns. When ecosystems are disrupted, services like clean air, water, and food can be affected. Additionally, we lose valuable natural resources – like plants and animals – that may hold untapped benefits for health and medicine.

Biodiversity serves as the foundation of healthy, sustainable food systems. It directly influences the availability and nutritional value of food, as a diverse range of plant and animal species, ecosystems, and genetic resources contribute to healthier, more resilient food production. Access to enough nutritious and varied food is a fundamental determinant of health.

Nutrition and biodiversity are interconnected at various levels, from ecosystems that provide food to the genetic diversity within species. This diversity affects the nutritional composition of food, including micronutrient availability. Healthy diets with adequate nutrient intake depend on high biodiversity.

SubQuestion No : 53

Q.53 What is the synonym of the word 'alarming' from the passage?

Comprehension:

Read the following passage carefully and choose the best answer to each question out of the four alternatives.

The rate of biodiversity loss is alarming, with recent estimates showing that species extinctions are currently 10 to 100 times higher than the natural baseline. This is largely due to human activities like deforestation, habitat fragmentation, and climate change. This loss threatens essential ecosystem services, including pollination, soil fertility, and water purification, with direct consequences for human health. For example, the degradation of wetlands, which filter freshwater, has led to a 35% decline in global wetland coverage since 1970, thus increasing waterborne diseases and reducing water availability for over 2 billion people.

Biodiversity loss and ecosystem degradation are becoming major health concerns. When ecosystems are disrupted, services like clean air, water, and food can be affected. Additionally, we lose valuable natural resources – like plants and animals – that may hold untapped benefits for health and medicine.

Biodiversity serves as the foundation of healthy, sustainable food systems. It directly influences the availability and nutritional value of food, as a diverse range of plant and animal species, ecosystems, and genetic resources contribute to healthier, more resilient food production. Access to enough nutritious and varied food is a fundamental determinant of health.

Nutrition and biodiversity are interconnected at various levels, from ecosystems that provide food to the genetic diversity within species. This diversity affects the nutritional composition of food, including micronutrient availability. Healthy diets with adequate nutrient intake depend on high biodiversity.

SubQuestion No : 54

Q.54 Which of the following options represents the structure of the passage?

Comprehension:

Read the following passage carefully and choose the best answer to each question out of the four alternatives.

The rate of biodiversity loss is alarming, with recent estimates showing that species extinctions are currently 10 to 100 times higher than the natural baseline. This is largely due to human activities like deforestation, habitat fragmentation, and climate change. This loss threatens essential ecosystem services, including pollination, soil fertility, and water purification, with direct consequences for human health. For example, the degradation of wetlands, which filter freshwater, has led to a 35% decline in global wetland coverage since 1970, thus increasing waterborne diseases and reducing water availability for over 2 billion people.

Biodiversity loss and ecosystem degradation are becoming major health concerns. When ecosystems are disrupted, services like clean air, water, and food can be affected. Additionally, we lose valuable natural resources – like plants and animals – that may hold untapped benefits for health and medicine.

Biodiversity serves as the foundation of healthy, sustainable food systems. It directly influences the availability and nutritional value of food, as a diverse range of plant and animal species, ecosystems, and genetic resources contribute to healthier, more resilient food production. Access to enough nutritious and varied food is a fundamental determinant of health.

Nutrition and biodiversity are interconnected at various levels, from ecosystems that provide food to the genetic diversity within species. This diversity affects the nutritional composition of food, including micronutrient availability. Healthy diets with adequate nutrient intake depend on high biodiversity.

SubQuestion No : 55

Q.55 What is the antonym of the word 'fragmentation'?

Q.56 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements:

Some buckets are pictures.

Some pictures are chairs.

Conclusions:

(I): Some buckets are chairs.

(II): All chairs are pictures.

- Ans**
- ☒ A. Only conclusion (II) follows
 - ☒ B. Both conclusions (I) and (II) follow
 - ☒ C. Neither conclusion (I) nor (II) follows
 - ☒ D. Only conclusion (I) follows

Q.57 The value of $\frac{1}{8} + \frac{5}{8} + \frac{2}{16} + \frac{3}{8} - 2$ is

- Ans
- ☒ A. $-\frac{7}{16}$
 - ☒ B. $-\frac{1}{16}$
 - ☒ C. $-\frac{3}{4}$
 - ☒ D. $-\frac{9}{16}$

Q.58 By how much is 30% of 60 greater than 30% of 35?

- Ans
- ☒ A. 7.5
 - ☒ B. 4.5
 - ☒ C. 2.5
 - ☒ D. 9.5

Q.59 The number of green balls and red balls in a bag is in the ratio 8:7. If there are a total of 105 balls, how many are red balls?

- Ans
- ☒ A. 32
 - ☒ B. 56
 - ☒ C. 49
 - ☒ D. 63

Q.60 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$123 \div 4 - 4277 \times 7 + 54 = ?$$

- Ans
- ☒ A. 1140
 - ☒ B. 1103
 - ☒ C. 1049
 - ☒ D. 1023

Q.61 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1325374, what will be difference between the highest and lowest digits in the number thus formed?

- Ans
- ☒ A. 4
 - ☒ B. 5
 - ☒ C. 6
 - ☒ D. 8

Q.62 Find the fourth proportional to $\frac{1}{3}, \frac{1}{4}$ and $\frac{1}{5}$.

- Ans
- ☒ A. $\frac{3}{20}$
 - ☒ B. $\frac{5}{21}$
 - ☒ C. $\frac{5}{12}$
 - ☒ D. $\frac{4}{15}$

Q.63 At a health club, 54% of the members are women and 46% of the members are men. If the average age of the men is 45 years and the average age of the women is 50 years, what is the average age (in years) of all the members?

- Ans**
- ☐ A. 47.2
 - ☒ B. 47.7
 - ☐ C. 46.8
 - ☐ D. 46.4

Q.64 For the frequency distribution of weights of sorghum ear-heads given in table below. Find the median.

Weights of ear heads (in g)	No of year head (f)	Cumulative frequency (f)
60-80	22	22
80-100	38	60
100-120	45	105
120-140	35	140
140-160	24	164
Total	164	

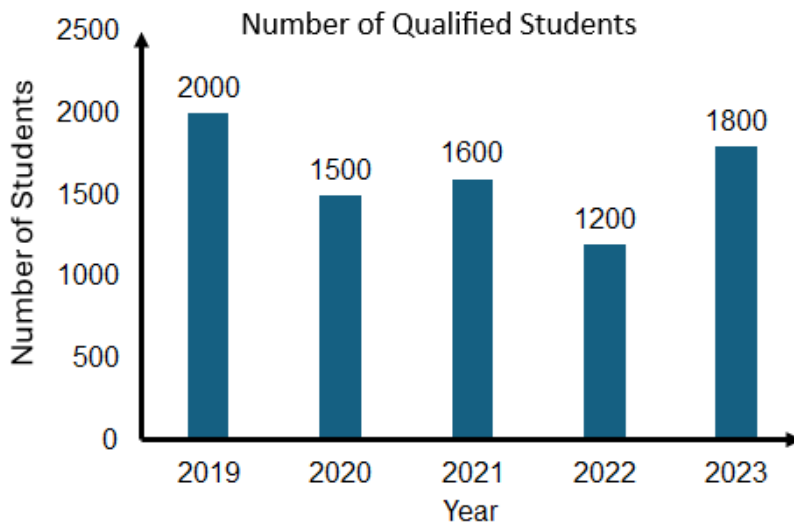
(Round off your answer to two decimal places)

- Ans**
- ☐ A. 108.54 g
 - ☐ B. 1108.26 g
 - ☒ C. 109.78 g
 - ☐ D. 109.24 g

Q.65 The sum of 100 observations and the sum of their squares are 400 and 2475, respectively. Later on, three observations, 3,4 and 5, were found to be incorrect. If the incorrect observations are omitted, then the variance of the remaining observations is:

- Ans**
- ☐ A. 8.25
 - ☒ B. 9
 - ☐ C. 8.65
 - ☐ D. 8.05

- Q.66** The following bar graph shows the number of students who qualified in a competitive examination from 2019 to 2023. Study the bar graph and answer the question that follows.



In which two consecutive years was the percentage increase in the number of qualified students the highest?

- Ans** ☒ A. 2022 - 2023
☐ B. 2019 - 2020
☐ C. 2021 - 2022
☐ D. 2020 - 2021

- Q.67** Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans** ☐ A. RTW
☐ B. JLO
☐ C. GIL
☒ D. MOQ

Comprehension:

Read the given passage and answer the questions that follow.

Traditionally, the study of history has had fixed boundaries and focal points—periods, countries, dramatic events, and great leaders. It also has had clear and firm notions of scholarly procedure: how one inquires into a historical problem, how one presents and documents one's findings, what constitutes admissible and adequate proof. Anyone who has followed recent historical literature can testify to the revolution that is taking place in historical studies. The currently fashionable subjects come directly from the sociology catalogue: childhood, work, leisure. The new subjects are accompanied by new methods. Where history once was primarily narrative, it is now entirely analytic. The old questions "What happened?" and "How did it happen?" have given way to the question "Why did it happen?" Prominent among the methods used to answer the question "Why" is psychoanalysis, and its use has given rise to psychohistory. Psychohistory does not merely use psychological explanations in historical contexts. Historians have always used such explanations when they were appropriate and when there was sufficient evidence for them. But this pragmatic use of psychology is not what psych-historians intend. They are committed, not just to psychology in general, but to Freudian psychoanalysis. This commitment precludes a commitment to history as historians have always understood it.

SubQuestion No : 68

- Q.68** Which of the following statements presents a fact explicitly mentioned in the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Traditionally, the study of history has had fixed boundaries and focal points—periods, countries, dramatic events, and great leaders. It also has had clear and firm notions of scholarly procedure: how one inquires into a historical problem, how one presents and documents one's findings, what constitutes admissible and adequate proof. Anyone who has followed recent historical literature can testify to the revolution that is taking place in historical studies. The currently fashionable subjects come directly from the sociology catalogue: childhood, work, leisure. The new subjects are accompanied by new methods. Where history once was primarily narrative, it is now entirely analytic. The old questions "What happened?" and "How did it happen?" have given way to the question "Why did it happen?" Prominent among the methods used to answer the question "Why" is psychoanalysis, and its use has given rise to psychohistory. Psychohistory does not merely use psychological explanations in historical contexts. Historians have always used such explanations when they were appropriate and when there was sufficient evidence for them. But this pragmatic use of psychology is not what psych-historians intend. They are committed, not just to psychology in general, but to Freudian psychoanalysis. This commitment precludes a commitment to history as historians have always understood it.

SubQuestion No : 69

Q.69 Which of the following best describes the structure of the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Traditionally, the study of history has had fixed boundaries and focal points—periods, countries, dramatic events, and great leaders. It also has had clear and firm notions of scholarly procedure: how one inquires into a historical problem, how one presents and documents one's findings, what constitutes admissible and adequate proof. Anyone who has followed recent historical literature can testify to the revolution that is taking place in historical studies. The currently fashionable subjects come directly from the sociology catalogue: childhood, work, leisure. The new subjects are accompanied by new methods. Where history once was primarily narrative, it is now entirely analytic. The old questions "What happened?" and "How did it happen?" have given way to the question "Why did it happen?" Prominent among the methods used to answer the question "Why" is psychoanalysis, and its use has given rise to psychohistory. Psychohistory does not merely use psychological explanations in historical contexts. Historians have always used such explanations when they were appropriate and when there was sufficient evidence for them. But this pragmatic use of psychology is not what psych-historians intend. They are committed, not just to psychology in general, but to Freudian psychoanalysis. This commitment precludes a commitment to history as historians have always understood it.

SubQuestion No : 70

Q.70 Select the main theme of the passage.

Comprehension:

Read the given passage and answer the questions that follow.

Traditionally, the study of history has had fixed boundaries and focal points—periods, countries, dramatic events, and great leaders. It also has had clear and firm notions of scholarly procedure: how one inquires into a historical problem, how one presents and documents one's findings, what constitutes admissible and adequate proof. Anyone who has followed recent historical literature can testify to the revolution that is taking place in historical studies. The currently fashionable subjects come directly from the sociology catalogue: childhood, work, leisure. The new subjects are accompanied by new methods. Where history once was primarily narrative, it is now entirely analytic. The old questions "What happened?" and "How did it happen?" have given way to the question "Why did it happen?" Prominent among the methods used to answer the question "Why" is psychoanalysis, and its use has given rise to psychohistory. Psychohistory does not merely use psychological explanations in historical contexts. Historians have always used such explanations when they were appropriate and when there was sufficient evidence for them. But this pragmatic use of psychology is not what psych-historians intend. They are committed, not just to psychology in general, but to Freudian psychoanalysis. This commitment precludes a commitment to history as historians have always understood it.

SubQuestion No : 71

Q.71 Which of the following best summarises the passage?

Comprehension:

Read the given passage and answer the questions that follow.

Traditionally, the study of history has had fixed boundaries and focal points—periods, countries, dramatic events, and great leaders. It also has had clear and firm notions of scholarly procedure: how one inquires into a historical problem, how one presents and documents one's findings, what constitutes admissible and adequate proof. Anyone who has followed recent historical literature can testify to the revolution that is taking place in historical studies. The currently fashionable subjects come directly from the sociology catalogue: childhood, work, leisure. The new subjects are accompanied by new methods. Where history once was primarily narrative, it is now entirely analytic. The old questions "What happened?" and "How did it happen?" have given way to the question "Why did it happen?" Prominent among the methods used to answer the question "Why" is psychoanalysis, and its use has given rise to psychohistory. Psychohistory does not merely use psychological explanations in historical contexts. Historians have always used such explanations when they were appropriate and when there was sufficient evidence for them. But this pragmatic use of psychology is not what psych-historians intend. They are committed, not just to psychology in general, but to Freudian psychoanalysis. This commitment precludes a commitment to history as historians have always understood it.

SubQuestion No : 72

Q.72 Which of the following statements best describes the most appropriate connection of the passage to real-life situations?

Q.73 The probability of an event A occurring is 0.6 and that of B occurring is 0.3. If A and B are mutually exclusive events, then the probability of neither A nor B occurring is:

- Ans
- ☒ A. 0.2
 - ☒ B. 0.1
 - ☒ C. 0.45
 - ☒ D. 0.9

Q.74 The sum of the digits of the greatest number that will divide 1359, 1871 and 2767 leaving the same remainder 15 in each case is:

- Ans
- ☒ A. 10
 - ☒ B. 9
 - ☒ C. 12
 - ☒ D. 8

Comprehension:

Read the given passage carefully and answer the questions that follow.

Until about five years ago, the very idea that peptide hormones might be made anywhere in the brain besides the hypothalamus was astounding. Peptide hormones, scientists thought, were made by endocrine glands and the hypothalamus was thought to be the brain's only endocrine gland. What is more, because peptide hormones cannot cross the blood-brain barrier, researchers believed that they never got to any part of the brain other than the hypothalamus, where they were simply produced and then released into the bloodstream. But these beliefs about peptide hormones were questioned as laboratory after laboratory found that antiserums to peptide hormones, when injected into the brain, bind in places other than the hypothalamus, indicating that either the hormones or substances that cross-react with the antiserums are present. The immunological method of detecting peptide hormones by means of antiserums, however, is imprecise. Cross-reactions are possible and this method cannot determine whether the substances detected by the antiserums really are the hormones, or merely close relatives. Furthermore, this method cannot be used to determine the location in the body where the detected substances are actually produced. New techniques of molecular biology, however, provide a way to answer these questions. It is possible to make specific complementary DNA's (cDNA's) that can serve as molecular probes to seek out the messenger RNA's (mRNA's) of the peptide hormones.

SubQuestion No : 75

Q.75 According to the passage, what was the traditional belief about peptide hormones in the brain?

Comprehension:

Read the given passage carefully and answer the questions that follow.

Until about five years ago, the very idea that peptide hormones might be made anywhere in the brain besides the hypothalamus was astounding. Peptide hormones, scientists thought, were made by endocrine glands and the hypothalamus was thought to be the brains' only endocrine gland. What is more, because peptide hormones cannot cross the blood-brain barrier, researchers believed that they never got to any part of the brain other than the hypothalamus, where they were simply produced and then released into the bloodstream. But these beliefs about peptide hormones were questioned as laboratory after laboratory found that antiserums to peptide hormones, when injected into the brain, bind in places other than the hypothalamus, indicating that either the hormones or substances that cross-react with the antiserums are present. The immunological method of detecting peptide hormones by means of antiserums, however, is imprecise. Cross-reactions are possible and this method cannot determine whether the substances detected by the antiserums really are the hormones, or merely close relatives. Furthermore, this method cannot be used to determine the location in the body where the detected substances are actually produced. New techniques of molecular biology, however, provide a way to answer these questions. It is possible to make specific complementary DNA's (cDNA's) that can serve as molecular probes to seek out the messenger RNA's (mRNA's) of the peptide hormones.

SubQuestion No : 76

Q.76 Select the option that the passage is primarily based upon.

Comprehension:

Read the given passage carefully and answer the questions that follow.

Until about five years ago, the very idea that peptide hormones might be made anywhere in the brain besides the hypothalamus was astounding. Peptide hormones, scientists thought, were made by endocrine glands and the hypothalamus was thought to be the brains' only endocrine gland. What is more, because peptide hormones cannot cross the blood-brain barrier, researchers believed that they never got to any part of the brain other than the hypothalamus, where they were simply produced and then released into the bloodstream. But these beliefs about peptide hormones were questioned as laboratory after laboratory found that antiserums to peptide hormones, when injected into the brain, bind in places other than the hypothalamus, indicating that either the hormones or substances that cross-react with the antiserums are present. The immunological method of detecting peptide hormones by means of antiserums, however, is imprecise. Cross-reactions are possible and this method cannot determine whether the substances detected by the antiserums really are the hormones, or merely close relatives. Furthermore, this method cannot be used to determine the location in the body where the detected substances are actually produced. New techniques of molecular biology, however, provide a way to answer these questions. It is possible to make specific complementary DNA's (cDNA's) that can serve as molecular probes to seek out the messenger RNA's (mRNA's) of the peptide hormones.

SubQuestion No : 77

Q.77 Which of the following best describes the structure of the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

Until about five years ago, the very idea that peptide hormones might be made anywhere in the brain besides the hypothalamus was astounding. Peptide hormones, scientists thought, were made by endocrine glands and the hypothalamus was thought to be the brains' only endocrine gland. What is more, because peptide hormones cannot cross the blood-brain barrier, researchers believed that they never got to any part of the brain other than the hypothalamus, where they were simply produced and then released into the bloodstream. But these beliefs about peptide hormones were questioned as laboratory after laboratory found that antiserums to peptide hormones, when injected into the brain, bind in places other than the hypothalamus, indicating that either the hormones or substances that cross-react with the antiserums are present. The immunological method of detecting peptide hormones by means of antiserums, however, is imprecise. Cross-reactions are possible and this method cannot determine whether the substances detected by the antiserums really are the hormones, or merely close relatives. Furthermore, this method cannot be used to determine the location in the body where the detected substances are actually produced. New techniques of molecular biology, however, provide a way to answer these questions. It is possible to make specific complementary DNA's (cDNA's) that can serve as molecular probes to seek out the messenger RNA's (mRNA's) of the peptide hormones.

SubQuestion No : 78

Q.78 Which of the following inferences can be drawn from the passage?

Comprehension:

Read the given passage carefully and answer the questions that follow.

Until about five years ago, the very idea that peptide hormones might be made anywhere in the brain besides the hypothalamus was astounding. Peptide hormones, scientists thought, were made by endocrine glands and the hypothalamus was thought to be the brains' only endocrine gland. What is more, because peptide hormones cannot cross the blood-brain barrier, researchers believed that they never got to any part of the brain other than the hypothalamus, where they were simply produced and then released into the bloodstream. But these beliefs about peptide hormones were questioned as laboratory after laboratory found that antiserums to peptide hormones, when injected into the brain, bind in places other than the hypothalamus, indicating that either the hormones or substances that cross-react with the antiserums are present. The immunological method of detecting peptide hormones by means of antiserums, however, is imprecise. Cross-reactions are possible and this method cannot determine whether the substances detected by the antiserums really are the hormones, or merely close relatives. Furthermore, this method cannot be used to determine the location in the body where the detected substances are actually produced. New techniques of molecular biology, however, provide a way to answer these questions. It is possible to make specific complementary DNA's (cDNA's) that can serve as molecular probes to seek out the messenger RNA's (mRNA's) of the peptide hormones.

SubQuestion No : 79

Q.79 Which of the following is the most appropriate connection of the passage to real-life situations?

Q.80 A right circular cone and a right circular cylinder have equal base and equal height. If the radius of the base and the height are in the ratio 12 : 5, then the ratio of the total surface area of the cylinder to that of the cone is:

- Ans
- ☐ A. 35 : 24
 - ☐ B. 29 : 21
 - ☐ C. 33 : 26
 - ☒ D. 34 : 25

Q.81 What should come in place of the question mark (?) in the given series?

717 720 710 714 705 710 702 ?

- Ans
- ☐ A. 712
 - ☐ B. 706
 - ☒ C. 708
 - ☐ D. 710

Q.82 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans
- ☐ A. FH - AC
 - ☒ B. SP - PR
 - ☐ C. OQ - JL
 - ☐ D. NP - IK

Q.83 The circumference of the base of a cylindrical vessel is 440 cm and its height is 60 cm. How many litres of water can it hold?

- Ans
- ☐ A. 928
 - ☒ B. 924
 - ☐ C. 936
 - ☐ D. 886

Q.84 $\frac{\sqrt[3]{2197}}{\sqrt[4]{10000}} \times \frac{5}{39} \times 24 = ?$

- Ans
- ☐ A. 6
 - ☐ B. 2
 - ☐ C. 8
 - ☒ D. 4

Q.85 The marks of 9 students are:

18, 22, 25, 28, 30, 35, 38, 40, 45.

If the marks of the students who scored 45 are replaced by 50, find the new median.

- Ans
- ☐ A. 29
 - ☐ B. 28
 - ☒ C. 30
 - ☐ D. 25

Q.86 In an A.P., the common difference is -9 and the first term is 50. Find the 3rd term.

- Ans
- ☐ A. 30
 - ☐ B. 31
 - ☐ C. 34
 - ☒ D. 32

Q.87 A fruit vendor buys 7 dozen bananas for ₹378. If he spends ₹72 more to buy additional bananas at the same rate, how many bananas does he buy in total?

- Ans
- ☒ A. 100
 - ☐ B. 94
 - ☐ C. 90
 - ☐ D. 97

Q.88 A smartphone is offered with two successive discounts of 20% and 10%. If the marked price is ₹25,000, then what is the final selling price?

- Ans
- ☒ A. ₹18,000
 - ☐ B. ₹17,500
 - ☐ C. ₹18,500
 - ☐ D. ₹19,000

Q.89 A rectangular cardboard sheet measures 14 cm in length and 11 cm in width. From each of the two longer sides (each 14 cm), three equilateral triangles of side 2 cm are cut out. From each of the two shorter sides (each 11 cm), a semicircle is cut out, such that none of the triangles or semicircles overlap with one another. If the perimeter of the cardboard after all these cuttings is 70 cm, find the radius (in cm) of each semicircle cut out.

(Use $\pi = \frac{22}{7}$).

- Ans
- ☐ A. 1.75
 - ☐ B. 7
 - ☐ C. 10.5
 - ☒ D. 3.5

Q.90 Refer to the following number series and answer the question that follows.
 Counting is to be done from left to right only. (All numbers are single-digit numbers only.)

(Left) 5 1 9 5 3 9 6 3 8 7 9 4 5 3 4 5 3 2 2 1 4 7 3 7 9 4 6 (Right)

How many such odd numbers are there that are immediately preceded by an even number and also immediately followed by an even number?

- Ans** ☒ A. Two
☒ B. Four
☒ C. Three
☒ D. One

Q.91 The average height of 16 boys out of a class of 50 boys is 160 cm. If the average height of the remaining boys is 167 cm, then the average height of the whole class (in cm) is:

- Ans** ☒ A. 164.76
☒ B. 164.5
☒ C. 163.5
☒ D. 165.76

Q.92 If 'P' stands for '+', 'Q' stands for 'x', 'R' stands for '+' and 'S' stands for '-', then what will come in place of the question mark (?) in the following equation?

76 P 4 R 12 Q 9 S 6 = ?

- Ans** ☒ A. 121
☒ B. 120
☒ C. 118
☒ D. 128

Q.93 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: HNJ :: RXT : %

- Ans** ☒ A. # = NTP, % = LRN
☒ B. # = NNB, % = UIN
☒ C. # = NXP, % = LIO
☒ D. # = MNP, % = LOQ

Q.94 The mode of the following data is 3.5. Find the value of x.

Class	0-1	1-2	2-3	3-4	4-5
Intervals					
Frequenc	1	3	x	7	4

y

- Ans** ☒ A. 5
☒ B. 3
☒ C. 4
☒ D. 6

Q.95 The mean of 50 scores is 87. It is later observed that two scores 52 and 37 were **INCORRECTLY** entered as 25 and 39, respectively. What is the correct mean of the 50 scores?

- Ans**
- ☐ A. 88
 - ☒ B. 87.5
 - ☐ C. 87
 - ☐ D. 99.5

Q.96 Six people, H, I, J, N, O and P, live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor, which is numbered 6. Only N lives above P. Only J lives below O. H lives immediately below P. How many people live between I and O?

- Ans**
- ☐ A. Three
 - ☒ B. None
 - ☐ C. Two
 - ☐ D. One

Q.97 A man buys 12 identical articles for a total of ₹20. If he sells each of them for ₹2.5, then what is his profit percentage?

- Ans**
- ☐ A. 51%
 - ☐ B. 34.33%
 - ☐ C. 33.33%
 - ☒ D. 50%

Q.98 A sector is formed by opening out a cone of a base radius of 12 cm and a height of 9 cm. Then the radius of the sector is:

- Ans**
- ☒ A. 15 cm
 - ☐ B. 9 cm
 - ☐ C. 6 cm
 - ☐ D. 12 cm

Q.99 If a man travels at the rate of 48 kmph, he misses a train by 19 minutes. However, if he travels at the rate of 50 kmph, he reaches the station 8 minutes before the arrival of the train. Find the distance covered by him to reach the station.

- Ans**
- ☐ A. 546 km
 - ☐ B. 534 km
 - ☒ C. 540 km
 - ☐ D. 531 km

Q.100 If x is inversely proportional to y, and $y = 21$ when $x = 30$, find the value of x, when $y = 5$.

- Ans**
- ☐ A. 129
 - ☒ B. 126
 - ☐ C. 135
 - ☐ D. 117